

**DOD-STD-2121 (NAVY)**  
**1 March 1984**

# **DOD STANDARD**

## **DETERMINATION OF ELECTRONIC TEST EQUIPMENT PARAMETERS**



**AMSC N3239**

**FSC 6625**

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1 March 1984

DEPARTMENT OF THE NAVY  
NAVAL ELECTRONIC SYSTEMS COMMAND  
WASHINGTON, D.C. 20363

Determination of Electronic Test Equipment Parameters.

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1. This DOD Standard is approved for use by the Naval Electronic Systems Command, Department of the Navy, and is available for all departments and agencies of the Department of Defense.
2. Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Commander, Naval Electronic Systems Command, Attn: ELEX 8111, Washington, D.C. 20363, by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

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# FOREWORD

This standard indicates the parameters to be identified when specifying Electronic Test Equipment (ETE). It provides measurement parameters and associated units to be specified when describing test equipment capabilities.

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## 1. SCOPE

1.1 Scope. This standard establishes the Electronic Test Equipment (ETE) standard noun names, parameters, and units to be used for documenting the ETE requirements of a weapon system.

2. REFERENCED DOCUMENTS Not applicable.

## 3. DEFINITIONS

3.1 General Purpose Electronic Test Equipment (GPETE). Electronic test equipment containing the capability of generating, modifying, or measuring a range of electronic functions to test two or more systems or equipments of basically different design.

3.2 GPETE Support Item (GSI). The complement of equipment, supplemental to GPETE, which is necessary to facilitate a complete test measurement capability. GSI includes GPETE auxiliary items, GPETE accessories, GPETE plug-ins, and GPETE ancillary equipment.

3.2.1 GPETE Auxiliary Item (GAI). A general purpose component or device used in support of a test measurement setup employing GPETE (examples: ratio transformers, portable directional couplers, and dc power supplies).

3.2.2 GPETE Accessory (GA). An individual support item used to complete or augment the operational capability of a specific item of GPETE or group of GPETE (examples: oscilloscope probes, multimeter test probes, and noise sources).

3.2.3 GPETE Plug-ins (GP-I). A removable assembly intended to complete or augment the operational capability of a specific item of GPETE (examples: oscilloscope preamplifier plug-ins, heterodyne frequency extender plug-ins, and digital word generator plug-ins).

3.2.4 GPETE Ancillary Equipment (GAE). A self-contained unit intended to augment the operational capability of a specific item of GPETE or group of GPETE (examples: self-contained transfer oscillators, self-contained modulators, and self-contained tracking generators).

3.3 Special Purpose Electronic Test Equipment (SPETE). Electronic test equipment of a specific or peculiar nature designed to generate, modify, or measure a range of electronic functions, to test a single system or equipment.

3.4 Automatic Test Equipment (ATE). Equipment which is designed to conduct analysis of functional or static parameters, to evaluate the degree of performance degradation, and which may be designed to perform fault isolation of unit malfunctions. The decision-making, central, or evaluation functions are

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conducted with minimum reliance on human intervention.

3.5 Digital Test Equipment (DTE). For the purposes of this document, the term "digital test equipment" refers to ETE used to maintain digital printed circuit boards.

3.6 Built-in Test (BIT) and Built-in-Test Equipment (BITE). Any device which is part of or permanently mounted in the weapon system and used for the express purpose of testing that weapon system either independently or in association with external test equipment.

3.7 Electronic Test Equipment (ETE). For the purposes of this document, the term "electronic test equipment" refers to GPETE, GSI, GAI, GA, GP-I, GAE, SPETE, ATE, DTE, BIT, and BITE.

3.8 Weapon System. For the purposes of this document, the term "weapon system" refers to the system under procurement.

3.9 Generic Code. For the purposes of this document, the term "Generic Code" is a three-character code used to reference a particular ETE noun name.

#### 4. GENERAL REQUIREMENTS

4.1 Weapon system maintenance requirements. The measurements necessary for the maintenance of a weapon system shall be identified. (see 6.1)

4.2 Weapon system parameter requirements. The technical requirements of a weapon system outlining the measurement ranges, parameters, accuracy requirements, and recommended ETE and ETE parameter values shall be identified. (see 6.1)

4.3 Weapon system maintenance. Maintenance of the weapon system shall include performance monitoring the system, aligning the system, fault locating the system to an assembly and subassembly, fault isolating a system failure to a component part, and calibrating any BIT or BITE in the weapon system.

4.4 Maintenance levels. A separate package of the data items (see 6.1) shall be prepared for each of the following maintenance levels:

- a. Organizational
- b. Intermediate
- c. Depot

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4.5 ETE requirements. The ETE required to support the weapon systems at each maintenance level shall be grouped as follows: GPETE, GSI, GP-I, GA, GAE, SPETE, ATE, DTE.

## 5. DETAILED REQUIREMENTS

5.1 Noun name. The standard noun names to be used when specifying ETE shall be selected from Appendix A.

5.2 Parameters and units. When specifying ETE, the parameters and units to be used for each standard noun name shall be as identified in Appendices B, C, and D.

5.3 Weapon system measurement requirements. The weapon system source document (for example, Technical Manuals) shall be used to determine the weapon system maintenance measurement values required. All measurement values, accuracy requirements, input and output requirements, and any other functional requirements or values relevant to each standard noun name shall be detailed on NAVELEX 9491/1(5-83) (see 6.1).

5.4 Measurement parameter values. The minimum and maximum values (as applicable) of the measurement data researched in 5.3 shall be entered on NAVELEX 9491/2(5-83) (see 6.1).

## 6. NOTES

6.1 Contract data requirements. The following Data Item Description (DID) shall be utilized if the procuring activity desires to order data that are generated from having invoked pertinent work tasks that are established within this standard. These data shall be specified in the Contract Data Requirements List (CDRL) (DD Form 1423).

<u>PARAGRAPH</u>	<u>DATA REQUIREMENT</u>	<u>DID</u>
4.1	Weapon system parameter work sheet (NAVELEX 9491/1(5-83))	DI-S-2191
4.2	Weapon system parameter requirements for Electronic Test Equipment (ETE) (NAVELEX 9491/2(5-83))	DI-S-2192

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6.2 Footnotes. The footnotes in Appendices B, C, and D are numbered with the line number(s) of the parameter(s) to which the footnote(s) apply.

Review Activities:  
Navy-SH  
User activities:  
Navy-OS, AS

Preparing Activity:  
Navy-EC  
(Project 6625-N794)



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#### APPENDIX A

##### ELECTRONIC TEST EQUIPMENT NOUN NAMES

This Appendix contains information related to DOD-STD-2121 (NAVY).  
Appendix A is a mandatory part of this standard.

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ELECTRONIC TEST EQUIPMENT NOUN NAMES

<u>NOUN NAME</u>	<u>GENERIC CODE</u>
Adapter, Coaxial, Set	AD1
Adapter, Waveguide to Coaxial	AD3
Adapter, Waveguide to Waveguide	AD4
Ammeter, Electronic, DC	AM0
Amplifier	AA0
Analyzer, Distortion	AN0
Analyzer, Distortion, TTY	TSF
Analyzer, Line Fault, Telecom	TSR
Analyzer, Logic (Includes Test Set, Digital Data)	AN4
Analyzer, Network	AN2
Analyzer, Spectrum	AN1
Analyzer, Spectrum, Real Time	AN3
Analyzer, Transmission, Telecom	TSA
Analyzer, Wave	AN5
Attenuator, Fixed, Coaxial	AT1
Attenuator, Fixed, Coaxial, Set	AT2
Attenuator, Fixed, Waveguide	AT3
Attenuator, Step	AT4
Attenuator, Variable, Coaxial	AT6
Attenuator, Variable, Waveguide	AT7
Bridge, Capacitance	BRC
Bridge, Complex Ratio	BR1
Bridge, Impedance, Radio Frequency	BR3
Bridge, RLC	BR0
Bridge, Synchro/Resolver, Decade	BR2
Calibrator, Range, Radar	TS9
Camera, Oscilloscope	CS1
Capacitor, Decade	CP1
Converter, Frequency, AC	CF1
Converter, Logarithmic	CV0

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## ELECTRONIC TEST EQUIPMENT NOUN NAMES (Continued)

<u>NOUN NAME</u>	<u>GENERIC CODE</u>
Counter, Electronic	CO0
Counter, Noise Impulse, Telecom	TSI
Coupler, Directional, Coaxial	DC1
Coupler, Directional, Waveguide	DC2
Coupler, Hybrid, Quadrature	CQ1
Curve Tracer (Includes both SCR and Semicon- ductor Types)	TE5
Detector, RF, Directional	DE1
Detector, RF, Fixed, Coaxial	DE2
Detector, RF, Fixed, Waveguide	DE3
Detector, RF, Tunable, Coaxial	DE4
Detector, RF, Tunable, Waveguide	DE5
Divider, Power	DP1
Divider, Voltage, Decade	DR3
Dummy Load, Coaxial (>50W)	DL1
Dummy Load, Waveguide (>50W)	DL2
Echo Box	EB0
Filter, Bandpass	FL1
Filter, Lowpass	FL2
Filter, Notch	FL3
Filter, Variable	FL4
Generator, Data, Telecom	TSH
Generator, Distortion, TTY	TSG
Generator, Electronic Countermeasures (See Generator, Signal, CW GE0 or Generator, Signal, Microwave GEA, or Generator, Signal, Radio Frequency GEB)	
Generator, Function (Includes special types such as Sawtooth, Sine Wave, and Ramp)	GE7
Generator, Noise	GE2
Generator, Pulse	GE2
Generator, Pulsed Carrier	GE8
Generator, Signal, CW (Includes oscil- lators, and electronic counter measures generators)	GE0

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ELECTRONIC TEST EQUIPMENT NOUN NAMES (Continued)

<u>NOUN NAME</u>	<u>GENERIC CODE</u>
Generator, Signal, Microwave (includes oscillators and generator, electronic counter measures)	GEA
Generator, Signal, Radio Frequency (includes oscillators and generator, electronic counter measures)	GEB
Generator, Simulator, Radio Frequency	GE9
Generator, Square Wave	GSQ
Generator, Sweep	GE1
Generator, Time Mark	GE4
Generator, Tone Burst	GE5
Generator, Two Tone	GE6
Generator/Analyzer, Distortion, TTY	TSC
Horn, Standard Gain	HN1
Inductor, Decade	LN1
Isolator, Coaxial	SR1
Isolator, Waveguide	SR2
Meter, Admittance	BR4
Meter, FM Deviation (See Meter, Modulation MD0)	
Meter, Frequency	FR0
Meter, Gain/Phase	GP0
Meter, Grid Dip	GD0
Meter, Impedance, Radio Frequency	MZ0
Meter, Impedance, Vector	VOZ
Meter, Modulation (Includes FM Deviation Meters)	MD0
Meter, Noise Figure	NF0
Meter, Phase Jitter	PJM
Meter, RF Power (See Test Set, Measuring, Power WA1, and Test Set, Measuring, Power, Electronic WA0)	
Meter, RIFI (See Test Set, Measuring, RIFI FI0)	

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ELECTRONIC TEST EQUIPMENT NOUN NAMES (Continued)

<u>NOUN NAME</u>	<u>GENERIC CODE</u>
Meter, SWR (See Test Set, Measuring, SWR TS2)	
Mixer, Balanced, Double	MX1
Modulator	ML0
Modulator, Waveguide	ML1
Multimeter, Analog, Electronic (Includes VTVM or Transistorized)	MU1
Multimeter, Analog, Volt ohmmeter	MU0
Multimeter, Digital (Includes Peak, Peak to Peak, Average, and RMS)	MU2
Multiplier, Frequency, Doubler	DO0
Ohmmeter, Mega	OH0
Oscillator, (See Generator, Signal CW GEO, or Generator, Signal, Microwave GEA, or Generator, Signal, Radio Frequency GEB)	
Oscilloscope	OS0
Oscilloscope, Sampling	OS1
Power Supply, Direct Voltage	PS1
Recorder, Strip Chart, Multiple Channel	RDO
Recorder, X-Y	RX0
Reflectometer, Time Domain	TDR
Resistor, Decade	RE1
Simulator, Synchro/Resolver	GES
Slotted Line	SL0
Stabilizer, Radio Frequency	SY0
Synthesizer, Frequency	FSN
Termination, Coaxial	TM1
Termination, Waveguide	TM2
Test Set, Digital Data (See Analyzer, Logic AN4)	
Test Set, Electron Tube	TE0
Test Set, Envelope Delay, Telecom	TS0
Test Set, Frequency Response	TS8

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ELECTRONIC TEST EQUIPMENT NOUN NAMES (Continued)

<u>NOUN NAME</u>	<u>GENERIC CODE</u>
Test Set, Impulse/Noise, Telecom	TSB
Test Set, Insulation (Includes High Voltage Test Sets)	TE4
Test Set, Measuring, Power, Electronic	WA0
Test Set, Logic (Includes Test Set, Logic Probe and Test Set, Logic Probe Kit)	TS3
Test Set, Loran	TS7
Test Set, Measuring, Power  (Includes Wattmeter and RF Power Meter)	WA1
Test Set, Measuring, Radiation Hazard (Includes Meter, Radiation Hazard if GPETE)	RH0
Test Set, Measuring, RIFI (Includes RIFI Meters)	F10
Test Set, Measuring, SWR (Includes VSWR Meters)	TS2
Test Set, Pulse Signaling, Telecom	TSP
Test Set, Radar	TS5
Test Set, Radio	TSM
Test Set, Recorder, Tape	FT0
Test Set, Semiconductor	TE1
Test Set, Sonar	TS6
Test Set, Transmission, Telecom	TST
Test Set, White Noise, Telecom	TSN
Tester, Bit Error Rate, Telecom	TSF
Tester, Digital	DT1
Tester, Relay, Telecom	TS4
Transformer, Auto	TR1
Transformer, Isolation	TR3
Transformer, Ratio	TR4
Voltmeter, Analog, Electronic (Includes AC, DC, RF, and True RMS Voltmeter)	VO1

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ELECTRONIC TEST EQUIPMENT NOUN NAMES (Continued)

<u>NOUN NAME</u>	<u>GENERIC CODE</u>
Voltmeter, Differential (Includes AC/DC, DC, and True RMS Differential Voltmeter)	V02
Voltmeter, Frequency Selective	V06
Voltmeter, Phase Angle	V08
Voltmeter, Vector	V04
Wattmeter (See Test Set, Measuring, Power WA1 and Test Set, Measuring, Power, Electronic WA0)	

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## APPENDIX B

### WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

This Appendix contains information related to DOD-STD-2121 (NAVY).  
Appendix B is a mandatory part of this standard.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: AMMETER, ELECTRONIC, DC  
ETE GENERIC CODE: AMO

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MAXIMUM DC CURRENT	AMPERES	5. PROBE ISOLATION-AC	PEAK
2. MINIMUM DC CURRENT	AMPERES		VOLTS
3. BEST DC CURRENT ACCURACY	PERCENT	6. MAXIMUM INDUCED VOLTAGE	VOLTS
4. PROBE ISOLATION-DC	VOLTS		
A. CLAMP-ON TYPE		F. 60 HZ POWER	
B. RECORDER OUTPUT		G. 400 HZ POWER	
C. DIGITAL READOUT		H. 115V AC	
D. INTERNAL BATTERY POWER		I. 230V AC	
E. 50 HZ POWER			

NOTES:

2. Minimum dc current is the full-scale value required of the most sensitive range.

A. An "X" shall be entered if a clamp-on function is required.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: AMPLIFIER  
ETE GENERIC CODE: AAO

PARAMETER	UNITS	PARAMETER	UNITS
1. MINIMUM FREQUENCY AT -3 dB	HERTZ	16. BEST RISE TIME	SECONDS
2. MAXIMUM FREQUENCY AT -3 dB	HERTZ	17. BEST FALL TIME	SECONDS
3. MINIMUM GAIN	DECIBELS	18. MINIMUM RESPONSE TIME	SECONDS
4. MAXIMUM GAIN	DECIBELS	19. RESPONSE FLATNESS	DECIBELS
5. GAIN STEPS	DECIBELS	20. BEST RATED DISTORTION	PERCENT
6. BEST GAIN ACCURACY	DECIBELS	21. PULSE ABBERATIONS	PERCENT
7. MINIMUM GAIN RESOLUTION	PERCENT OF FULL OUTPUT	22. PULSE DURATION (10% DROOP)	SECONDS
8. DYNAMIC RANGE	DECIBELS	23. PULSE DELAY	SECONDS
9. INPUT IMPEDANCE	OHMS	24. PHASE SHIFT	DEGREES
10. INPUT SWR	NUMBER	25. MAXIMUM OUTPUT	WATTS
11. MAXIMUM PEAK INPUT	VOLTS	26. OVERLOAD RECOVERY	SECONDS
12. MAXIMUM DC INPUT	VOLTS	27. MINIMUM EXTERNAL MODULATION FREQUENCY	HERTZ
13. MAXIMUM INPUT ISOLATION	VOLTS	28. MAXIMUM EXTERNAL MODULATION FREQUENCY	HERTZ
14. NOISE REFERENCED TO INPUT	VOLTS	29. INTERNAL HIGH VOLTAGE TIME DELAY	SECONDS
15. NOISE FIGURE	DECIBELS	30. CURRENT LIMIT	AMPERES
		31. OUTPUT IMPEDANCE	OHMS
A. FIXED GAIN		J. SELECTABLE BANDWIDTH	
B. DECADE GAIN STEPS		K. DIFFERENTIAL INPUT	
C. VARIABLE GAIN		L. INTERNAL BATTERY POWER	
D. TYPE N CONNECTORS		M. 50 HZ POWER	
E. BNC CONNECTORS		N. 60 HZ POWER	
F. BINDING POSTS		O. 400 HZ POWER	
G. AM MODULATOR		P. 115V AC	
H. SIGNAL LEVEL METER		Q. 230V AC	
I. OUTPUT CURRENT MONITOR			

NOTES:

4. The maximum gain or amplification required of the ETE.

10. The maximum VSWR that the ETE shall be allowed to have at its input.

14. The maximum noise that the ETE shall be allowed to introduce onto the amplified signal.

15. The quality of an amplifier is expressed as a figure of merit, or noise figure. Noise figure is the ratio of the actual output noise power of the amplifier compared to the noise power which would be available if the amplifier were perfect and merely amplified the thermal noise of the input termination rather than contributing any noise of its own.

19. Response flatness is the total variation of amplitude across the frequency band, expressed as a ratio between the minimum and maximum level. For example, a requirement for +/-5 dB flatness from a reference level shall be recorded as 10 dB.

20. The percentage of distortion allowed to be introduced into the amplified signal by the ETE.

22. The pulse duration that the ETE must be capable of accepting without introducing more than 10% droop.

25. The maximum output required of the ETE.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: ANALYZER, DISTORTION  
ETE GENERIC CODE: ANQ

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MAXIMUM FUNDAMENTAL FREQUENCY	HERTZ	11. MINIMUM INPUT FOR 100% DISTORTION	VOLTS
2. MINIMUM FUNDAMENTAL FREQUENCY	HERTZ	12. MAXIMUM INPUT (SET LEVEL)	VOLTS
3. BEST FUNDAMENTAL FREQUENCY ACCURACY	PERCENT	13. INPUT ISOLATION	VOLTS
4. MAXIMUM RF CARRIER FREQUENCY	HERTZ	14. FUNDAMENTAL FREQUENCY REJECTION	DECIBELS
5. MINIMUM RF CARRIER FREQUENCY	HERTZ	15. MAXIMUM INDUCED DISTORTION	PERCENT
6. MINIMUM VOLTMETER FULL SCALE	VOLTS	16. MAXIMUM INPUT WITHOUT DAMAGE	VOLTS
7. MAXIMUM VOLTMETER FULL SCALE	VOLTS	17. INPUT RESISTANCE	OHMS
8. BEST VOLTMETER ACCURACY	PERCENT	18. INPUT CAPACITANCE	FARADS
9. MINIMUM RANGE DISTORTION FULL SCALE	PERCENT	19. MONITOR OUTPUT IMPEDANCE	OHMS
10. BEST DISTORTION ACCURACY	PERCENT	20. MONITOR OUTPUT	VOLTS
A. AUTOMATIC NULL		H. INTERNAL BATTERY POWER	
B. CONTINUOUS FILTER TUNING		I. 50 HZ POWER	
C. VOLTMETER MODE		J. 60 HZ POWER	
D. AM DETECTOR		K. 400 HZ POWER	
E. HI-PASS FILTER		L. 115V AC	
F. LO-PASS FILTER		M. 230V AC	
G. IEEE/488			

NOTES:

11. The minimum input voltage at which the ETE shall be capable of reaching a set level of 100%.
12. The maximum input voltage at which the ETE shall be capable of reaching a set level of 100%.
15. The amount of distortion allowed to be introduced by the ETE.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: ANALYZER, DISTORTION, TTY  
ETE GENERIC CODE: TSF

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM INTERNAL BAUD RATE	BAUDS	8. MAXIMUM PEAK BIAS DISTORTION	PERCENT
2. MAXIMUM INTERNAL BAUD RATE	BAUDS	9. DISTORTION RESOLUTION	PERCENT
3. MINIMUM EXTERNAL BAUD RATE	BAUDS	10. BEST BIAS DISTORTION ACCURACY	PERCENT
4. MAXIMUM EXTERNAL BAUD RATE	BAUDS	11. END DISTORTION	PERCENT
5. MINIMUM AVERAGE BIAS DISTORTION	PERCENT	12. MAXIMUM BIT ERROR COUNT	NUMBER
6. MAXIMUM AVERAGE BIAS DISTORTION	PERCENT	13. CODE BITS	NUMBER
7. MINIMUM PEAK BIAS DISTORTION	PERCENT		
A. EVEN PARITY		L. FIELDATA	
B. ODD PARITY		M. ITA NO-5	
C. NEUTRAL		N. EIA RS-232	
D. POLAR		O. IEEE/488	
E. HIGH LEVEL		P. INTERNAL BATTERY POWER	
F. LOW LEVEL		Q. 50 HZ POWER	
G. SYNCHRONOUS		R. 60 HZ POWER	
H. ASYNCHRONOUS		S. 400 HZ POWER	
I. INTERNAL LOOP SUPPLY		T. 115V AC	
J. ITA NO-2		U. 230V AC	
K. ASCII			

## NOTES:

5,6,7,8,10. Bias distortion is the uniform shifting of positive-going transitions from their proper position in relationship to the start pulse.

11. A shifting of the ends of all marking pulses of start-stop TTY signals from their proper positions relative to the beginning of the start pulse.

K. American Standard Code for Information Interchange.

P. Applies to source power, not loop supply.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: ANALYZER, LINE FAULT, TELECOM  
ETE GENERIC CODE: TSR

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM MARKER RANGE	MILES	6. OUTPUT PULSE AMPLITUDE	VOLTS
2. MAXIMUM MARKER RANGE	MILES	7. OUTPUT PULSE WIDTH	SECONDS
3. BEST MARKER ACCURACY	PERCENT	8. MINIMUM SWEEP RANGE	METERS
4. RANGE MARKER DIAL RESOLUTION	METERS	9. MAXIMUM SWEEP RANGE	METERS
5. OUTPUT PULSE REPETITION RATE	PULSES/ SECOND	10. SWEEP RANGES	NUMBER
		11. OUTPUT IMPEDANCE	OHMS
A. DEADLINE OPERATION		J. IDENTIFY TRANSFORMER BANK	
B. ENERGIZED LINE OPERATION		K. RECORDER OUTPUT	
C. VARIABLE PULSE WIDTH		L. INTERNAL BATTERY POWER	
D. DELAYED SWEEP MAGNIFICATION		M. 50 HZ POWER	
E. IDENTIFY OPEN		N. 60 HZ POWER	
F. IDENTIFY SHORT		O. 400 HZ POWER	
G. IDENTIFY GROUND		P. 115V AC	
H. IDENTIFY TAP		Q. 230V AC	
I. IDENTIFY CAPACITOR BANK			

## NOTES:

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: ANALYZER, LOGIC (INCLUDES TEST SET, DIGITAL DATA)  
ETE GENERIC CODE: AN4

PARAMETER	UNITS	PARAMETER	UNITS
1. MINIMUM CLOCK RATE	HERTZ	13. NUMBER OF TRIGGER QUALIFIERS	NUMBER
2. MAXIMUM CLOCK RATE	HERTZ	14. MAXIMUM PRETRIGGER DELAY	CLOCK PERIODS
3. MINIMUM CLOCK PULSE WIDTH	SECONDS	15. MAXIMUM DIGITAL DELAY	EVENTS
4. MAXIMUM CLOCK PULSE WIDTH	SECONDS	16. MAXIMUM DATA INPUT CHANNELS	NUMBER
5. MAXIMUM EXTERNAL CLOCK RATE	HERTZ	17. DATA MAXIMUM TRIGGER WORD LENGTH	BITS
6. MAXIMUM INPUT THRESHOLD	VOLTS	18. MAXIMUM TIMING INPUT CHANNELS	NUMBER
7. MINIMUM INPUT THRESHOLD	VOLTS	19. TIMING MAXIMUM TRIGGER WORD LENGTH	BITS
8. INPUT DYNAMIC RANGE	VOLTS	20. MINIMUM DATA PULSE WIDTH	SECONDS
9. MAXIMUM MEMORY DEPTH	NUMBER OF WORDS	21. MINIMUM TRIGGER PULSE WIDTH	SECONDS
10. MAXIMUM REFERENCE MEMORY DEPTH	NUMBER OF WORDS	22. MAXIMUM INPUT WITHOUT DAMAGE	VOLTS
11. GLITCH CAPTURE	SECONDS	23. MAXIMUM INPUT BIAS	AMPERES
12. NUMBER OF CLOCK QUALIFIERS	NUMBER	24. INPUT RESISTANCE	OHMS
		25. INPUT CAPACITANCE	FARADS
A. SYNCHRONOUS		L. BINARY FORMAT	
B. ASYNCHRONOUS		M. DECIMAL FORMAT	
C. PARALLEL DATA		N. OCTAL FORMAT	
D. SERIAL DATA		O. HEXADECIMAL FORMAT	
E. GLITCH TRIGGER		P. IEEE/488	
F. TRIGGER OUTPUT		Q. INTERNAL BATTERY POWER	
G. POSITIVE TRUE		R. 50 HZ POWER	
H. NEGATIVE TRUE		S. 60 HZ POWER	
I. WAVEFORM DISPLAY		T. 400 HZ POWER	
J. BUILT-IN CRT		U. 115V AC	
K. DISPLAY FORMATTING		V. 230V AC	

## NOTES:

1. The slowest rate at which the model shall satisfactorily operate.
2. The fastest rate at which the model shall satisfactorily operate.
9. The capacity required of the ETE, e.g., 32,000.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

EIE NOUN NAME: ANALYZER, NETWORK  
ETE GENERIC CODE: AN2

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM FREQUENCY RANGE	HERTZ	21. POLAR PHASE CALIBRATION INCREMENT	DEGREES
2. MAXIMUM FREQUENCY RANGE	HERTZ	22. POLAR PHASE ACCURACY	CENTIMETERS
3. MINIMUM TEST CHANNEL INPUT	dBm	23. MINIMUM PHASE INPUT	DEGREES
4. MAXIMUM TEST CHANNEL INPUT	dBm		FULL SCALE
5. MINIMUM REFERENCE CHANNEL INPUT	dBm	24. MAXIMUM PHASE INPUT	DEGREES
6. MAXIMUM REFERENCE CHANNEL INPUT	dBm		FULL SCALE
7. BEST TEST CHANNEL AMPLITUDE ACCURACY	DECIBELS	25. BEST PHASE ACCURACY	PERCENT OF
8. BEST REFERENCE CHANNEL AMPLITUDE ACCURACY	DECIBELS		FULL SCALE
9. INPUT ATTENUATOR RANGE	DECIBELS	26. MAXIMUM PHASE OFFSET	DEGREES
10. MAXIMUM CUMULATIVE ATTENUATOR ERROR	DECIBELS	27. BEST PHASE OFFSET ACCURACY	DEGREES
11. CHANNEL ISOLATION	DECIBELS	28. MAXIMUM PHASE OUTPUT	VOLTS/DEGREE
12. MINIMUM PHASE MEASUREMENT RANGE	DEGREES	29. MINIMUM OUTPUT LEVEL	dBm
13. MAXIMUM PHASE MEASUREMENT RANGE	DEGREES	30. MAXIMUM OUTPUT LEVEL	dBm
14. INPUT IMPEDANCE	OHMS	31. BEST OUTPUT LEVEL ACCURACY	dBm
15. MAXIMUM VSUR	NUMBER	32. BEST OUTPUT LEVEL FLATNESS	dBm
16. MAXIMUM INPUT WITHOUT DAMAGE	WATTS	33. MAXIMUM HARMONIC LEVEL	dBc
17. MAXIMUM AMPLITUDE DISPLAY	DECIBELS	34. MAXIMUM SPURIOUS SIGNAL LEVEL	dBc
18. BEST AMPLITUDE DISPLAY ACCURACY	DECIBELS/DEGREE	35. MAXIMUM RESIDUAL FM	HERTZ
19. MAXIMUM PHASE DISPLAY	DEGREES	36. MAXIMUM RESIDUAL AM	dBc
20. BEST PHASE DISPLAY ACCURACY	DEGREES/DEGREE	37. MINIMUM FREQUENCY OUTPUT	HERTZ
		38. MAXIMUM FREQUENCY OUTPUT	HERTZ
		39. BEST OUTPUT FREQUENCY ACCURACY	PERCENT OF SETTING
A. DIGITAL DISPLAY		U. BNC CONNECTORS	
B. ANALOG DISPLAY		V. AFC-7 CONNECTORS	
C. PHASE-MAGNITUDE DISPLAY		W. SELF CALIBRATION	
D. PHASE-GAIN INDICATOR		X. X-Y PLOTTER	
E. POLAR DISPLAY		Y. X-Y PRINTOUT	
F. STORAGE NORMALIZER		Z. STORAGE CAPABILITY	
G. S-PARAMETER TEST SET		AA. INTERNAL AM	
H. REFLECTION/TRANSMISSION TEST UNIT		BB. EXTERNAL AM	
I. UNIVERSAL EXTENSION		CC. INTERNAL FM	
J. TRANSISTOR EXTENSION		DD. EXTERNAL FM	
K. TRANSISTOR FIXTURES		EE. VIDEO FILTER	
L. FLEXIBLE ARM		FF. CRYSTAL MARKER	
M. GENERATOR/SWEEPER		GG. AUXILIARY POWER SUPPLY FOR DISPLAY UNITS	
N. DIGITAL MARKER		HH. IEEE/488	
O. REFLECTION-TRANSMISSION KIT		II. INTERNAL BATTERY POWER	
P. HARMONIC FREQUENCY CONVERTER		JJ. 50 HZ POWER	
Q. GENERATOR/SWEEPER FULL SWEEP MODE		KK. 60 HZ POWER	
R. GENERATOR/SWEEPER VIDEO SWEEP MODE		LL. 400 HZ POWER	
S. GENERATOR/SWEEPER SYMMETRICAL SWEEP MODE		MM. 115V AC	
T. N CONNECTORS		NN. 230V AC	

NOTES:

1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16. Applies to the receiver unit of the ETE.

17,18,19,20. Applies to the phase-magnitude display unit of the ETE.



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ETE NOUN NAME: ANALYZER, NETWORK  
ETE GENERIC CODE: AN2

NOTES:

21,22. Applies to the polar display unit of the ETE.

23,24,25,26,27,28. Applies to the phase gain indicator unit of the ETE.

29,30,31,32,33,34,35,36,37,38,39,A,B,C,D. Applies to the generator/sweeper unit of the ETE.

15. The maximum VSWR to be allowed of the ETE at its input.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: ANALYZER, SPECTRUM  
ETE GENERIC CODE: AN1

PARAMETER	UNITS	PARAMETER	UNITS
1. MAXIMUM FREQUENCY	HERTZ	20. MAXIMUM DISPLAY WIDTH	HERTZ
2. MINIMUM FREQUENCY	HERTZ	21. MINIMUM RESOLUTION BANDWIDTH	HERTZ
3. BEST FREQUENCY DISPLAY ACCURACY	PERCENT	22. RESOLUTION BANDWIDTH ACCURACY	PERCENT
4. BEST FREQUENCY DIAL ACCURACY	HERTZ	23. RESOLUTION SHAPE FACTOR	NUMBER
5. MAXIMUM FREQUENCY DRIFT	HERTZ/HOUR	24. MAXIMUM LINEAR FREQUENCY SPAN	HERTZ
6. MAXIMUM LOG MODE INPUT	dBm	25. MINIMUM LINEAR FREQUENCY SPAN	HERTZ
7. MINIMUM LOG MODE INPUT	dBm	26. MAXIMUM LOG FREQUENCY SPAN	HERTZ
8. MAXIMUM LINEAR MODE INPUT	VOLTS	27. MINIMUM LOG FREQUENCY SPAN	HERTZ
9. MINIMUM LINEAR MODE INPUT	VOLTS	28. MAXIMUM LINEAR SWEEP TIME	SECONDS
10. LOG MODE RF ATTENUATOR ACCURACY	DECIBELS	29. MINIMUM LINEAR SWEEP TIME	SECONDS
11. LINEAR MODE RF ATTENUATOR ACCURACY	DECIBELS	30. LOG SWEEP TIME	SECONDS
12. IF ATTENUATOR ACCURACY	DECIBELS	31. MINIMUM SWEEP RATE	SECONDS/ CENTIMETER
13. BEST LOG MODE AMPLITUDE DISPLAY ACCURACY	DECIBELS	32. MAXIMUM SWEEP RATE	SECONDS/ CENTIMETER
14. BEST LINEAR MODE AMPLITUDE DISPLAY ACCURACY	PERCENT	33. OUTPUT LEVEL FLATNESS	DECIBELS
15. BEST REFERENCE LEVEL ACCURACY LOG MODE	DECIBELS	34. MAXIMUM NOISE SIDEBANDS	dBc
16. BEST REFERENCE LEVEL ACCURACY LINEAR MODE	PERCENT	35. MAXIMUM SPURIOUS RESPONSES	dBc
17. MAXIMUM DYNAMIC RANGE	DECIBELS	36. MAXIMUM INTERMODULATION DISTORTION	dBc
18. MAXIMUM DISPLAY DYNAMIC RANGE	DECIBELS	37. MAXIMUM DC INPUT WITHOUT DAMAGE	VOLTS
19. MINIMUM DISPLAY WIDTH	HERTZ	38. MAXIMUM RMS INPUT WITHOUT DAMAGE	VOLTS
		39. INPUT IMPEDANCE	OHMS
A. DISPLAY STORAGE		J. INPUT AMPLIFIER OVERLOAD INDICATOR	
B. VARIABLE PERSISTENCE		K. TRACKING GENERATOR	
C. MULTIPLE MEMORY DIGITAL STORAGE		L. X-Y OUTPUT	
D. INTERNAL PRESELECTOR		M. IEEE/488	
E. INTERNAL PHASE LOCK		N. INTERNAL BATTERY POWER	
F. VERTICAL SCALE		O. 50 HZ POWER	
G. ADAPTIVE SWEEP		P. 60 HZ POWER	
H. VIDEO FILTER		Q. 400 HZ POWER	
I. WAVEGUIDE MIXERS		R. 115V AC	
		S. 230V AC	

## NOTES:

6,7. Input referenced to 10 kHz bandwidth.

17. The difference between the maximum input signal level and the average noise level or distortion products, whichever is greater.

31. The slowest required sweep speed in seconds per centimeter.

32. The fastest required sweep speed in seconds per centimeter.

G. Adaptive sweep increases scan speed 20 to 25 times faster than normal over the area of the scan where no signal greater than 6 dB above threshold exists. If this requirement exists, an "X" shall be entered.

K. An "X" shall be entered if a tracking generator is required as an integral part of the ETE.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: ANALYZER, SPECTRUM, REAL TIME  
ETE GENERIC CODE: AN3

PARAMETER	UNITS	PARAMETER	UNITS
1. MINIMUM OPERATING FREQUENCY	HERTZ	12. FREQUENCY RESPONSE	DECIBELS
2. MAXIMUM OPERATING FREQUENCY	HERTZ	13. MAXIMUM SEQUENTIAL TIME PERIODS	NUMBER
3. REAL-TIME FREQUENCY MAXIMUM	HERTZ	14. SAMPLING RATE	NUMBER X FULL-SCALE FREQUENCY SELECTED
4. FREQUENCY ACCURACY	PERCENT FULL SCALE		DECIBELS/ OCTAVE
5. MAXIMUM INPUT RANGE	VOLTS FULL SCALE	15. 1/3-OCTAVE FILTER ROLLOFF	HERTZ
6. MINIMUM INPUT RANGE	VOLTS FULL SCALE	16. 1/3-OCTAVE FILTER BANDWIDTH	DECIBELS
7. DYNAMIC RANGE	DECIBELS	17. INTERMODULATION DISTORTION	dBc
8. DISPLAY RANGE	DECIBELS	18. MAXIMUM RESIDUAL NOISE	OHMS
9. AMPLITUDE LINEARITY	+/- PERCENT FULL SCALE	19. INPUT IMPEDANCE RESISTANCE	FARADS
10. RESOLUTION	NUMBER LINES	20. INPUT IMPEDANCE CAPACITANCE	VOLTS RMS
11. BANDWIDTH	PERCENT OF MAXIMUM FREQUENCY	21. MAXIMUM INPUT WITHOUT DAMAGE	
A. CRT DISPLAY		N. TRANSIENT CAPTURE	
B. 1/3-OCTAVE FILTERS		O. AUTOMATIC 1/3-OCTAVE FILTER SELECTION	
C. DISPLAY STORAGE		P. ANTI-ALIASING FILTERS	
D. CURSOR SELECT DISPLAY		Q. X-Y RECORDER	
E. MICROPROCESSOR CONTROL		R. IEEE/488	
F. A-WEIGHT LEVELS		S. VIDEO OUTPUT	
G. BAR-GRAPH DISPLAY		T. INTERNAL BATTERY POWER	
H. SELF CALIBRATE CHECK		U. 50 HZ POWER	
I. FLAT RESPONSE LEVEL		V. 60 HZ POWER	
J. MICROPHONE INPUT		W. 400 HZ POWER	
K. TRANSDUCER INPUT		X. 115V AC	
L. TAPE INPUT		Y. 230V AC	
M. OVERLOAD INDICATION			

## NOTES:

7. The difference between the maximum input signal level and the average noise level or distortion products, whichever is greater.

11. The required bandwidth of the ETE expressed as a percentage of maximum frequency.

F. An "X" shall be entered if the ETE is required to have an "A weighting" setting. This provides a correction factor for various frequencies.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: ANALYZER, TRANSMISSION, TELECOM  
ETE GENERIC CODE: TSA

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. RECEIVER MINIMUM FREQUENCY	HERTZ	11. TRANSMITTER FREQUENCY RESOLUTION	HERTZ
2. RECEIVER MAXIMUM FREQUENCY	HERTZ	12. TRANSMITTER MINIMUM SIGNAL LEVEL	dBm
3. RECEIVER FREQUENCY ACCURACY	COUNTS	13. TRANSMITTER MAXIMUM SIGNAL LEVEL	dBm
4. RECEIVER FREQUENCY RESOLUTION	HERTZ	14. TRANSMITTER SIGNAL LEVEL ACCURACY	DECIBELS
5. RECEIVER MINIMUM SIGNAL LEVEL	dBm	15. TRANSMITTER SIGNAL LEVEL RESOLUTION	DECIBELS
6. RECEIVER MAXIMUM SIGNAL LEVEL	dBm	16. TRANSMITTER TOTAL HARMONIC DISTORTION	PERCENT
7. RECEIVER SIGNAL LEVEL RESOLUTION	DECIBELS	17. MESSAGE CIRCUIT MINIMUM NOISE LEVEL	dBm
8. TRANSMITTER MINIMUM FREQUENCY	HERTZ	18. NOISE-WITH-TONE MINIMUM NOISE LEVEL	dBm
9. TRANSMITTER MAXIMUM FREQUENCY	HERTZ	19. NOISE-TO-GROUND MINIMUM NOISE LEVEL	dBm
10. TRANSMITTER FREQUENCY ACCURACY	COUNTS	20. NOISE MEASUREMENT ACCURACY	DECIBELS
A. AUTO RANGING		O. HANDSET CLIP	
B. DIGITAL READOUT		P. INPUT MESSAGE CIRCUIT NOISE	
C. TWO-WIRE BALANCED MEASUREMENT		Q. NOISE-WITH-TONE	
D. FOUR-WIRE BALANCED MEASUREMENT		R. NOISE-TO-GROUND	
E. 135 OHM INPUT/OUTPUT IMPEDANCE		S. SPEAKER MONITOR	
F. 600 OHM INPUT/OUTPUT IMPEDANCE		T. SPEAKER VOLUME CONTROL	
G. 900 OHM INPUT/OUTPUT IMPEDANCE		U. IEEE/488	
H. C-MESSAGE FILTER		V. INTERNAL BATTERY POWER	
I. PROGRAM FILTER		W. 50 HZ POWER	
J. 3 KHz FILTER		X. 60 HZ POWER	
K. 15 KHz FLAT FILTER		Y. 400 HZ POWER	
L. NOTCH FILTER		Z. 115V AC	
M. WECO 310 JACK		AA. 230V AC	
N. BANANA INPUT/OUTPUT CONNECTORS			

NOTES:

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: ANALYZER, WAVE  
ETE GENERIC CODE: AN5

PARAMETER	UNITS	PARAMETER	UNITS
1. MINIMUM FREQUENCY	HERTZ	13. MAXIMUM INPUT RESISTANCE	OHMS
2. MAXIMUM FREQUENCY	HERTZ	14. MINIMUM INPUT CAPACITANCE	FARADS
3. BEST FREQUENCY ACCURACY	HERTZ	15. MAXIMUM RMS INPUT WITHOUT DAMAGE	VOLTS
4. FREQUENCY RESOLUTION	HERTZ	16. NARROWEST BANDWIDTH	HERTZ
5. MAXIMUM FREQUENCY DRIFT	HERTZ/HOUR	17. WIDEST BANDWIDTH	HERTZ
6. MAXIMUM FULL-SCALE LINEAR SENSITIVITY	VOLTS	18. BEST BANDWIDTH SHAPE FACTOR RATIO	NUMBER
7. MINIMUM FULL-SCALE LINEAR SENSITIVITY	VOLTS	19. MAXIMUM NOISE SIDEBAND	dBc
8. MAXIMUM FULL-SCALE LOGARITHMIC SENSITIVITY	dBm	20. DYNAMIC RANGE	DECIBELS
9. MINIMUM FULL-SCALE LOGARITHMIC SENSITIVITY	dBm	21. AFC HOLD-IN RANGE	HERTZ
10. BEST VOLTAGE ACCURACY	PERCENT	22. MINIMUM SCAN WIDTH	HERTZ
11. INPUT ATTENUATOR STEPS	NUMBER	23. MAXIMUM SCAN WIDTH	HERTZ
12. INPUT ATTENUATOR ACCURACY	PERCENT	24. MINIMUM SWEEP TIME	SECONDS
		25. MAXIMUM SWEEP TIME	SECONDS
A. AUTO SWEEP AVAILABLE		K. RECORDER OUTPUT	
B. TRACKING GENERATOR OUTPUT		L. SELECTABLE BANDWIDTH	
C. CALIBRATOR		M. AFC LOCK INDICATOR	
D. DIGITAL DISPLAY		N. SWEEP ERROR INDICATOR	
E. ANALOG DISPLAY		O. INTERNAL BATTERY POWER	
F. EXPANDED SCALE		P. 50 HZ POWER	
G. OVERLOAD INDICATOR		Q. 60 HZ POWER	
H. UNBALANCED INPUT		R. 400 HZ POWER	
I. BALANCED BRIDGING INPUT		S. 115V AC	
J. BALANCED TERMINATED INPUT		T. 230V AC	

## NOTES:

6. The full-scale indication required of the most sensitive range in the linear mode.
7. The full-scale indication required of the least sensitive range in the linear mode.
8. The full-scale indication required of the most sensitive range in the logarithmic mode.
9. The full-scale indication required of the least sensitive range in the logarithmic mode.
20. The dB ratio of the largest and smallest signals to be simultaneously accommodated by the ETE without causing an error in the measurement.
24. The slowest sweep time required.
25. The fastest sweep time required.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: BRIDGE, COMPLEX RATIO  
ETE GENERIC CODE: BR1

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MAXIMUM OPERATING FREQUENCY	HERTZ	11. MAXIMUM IN-PHASE ACCURACY	PERCENT
2. MINIMUM OPERATING FREQUENCY	HERTZ	12. MAXIMUM QUADRATURE ACCURACY	PERCENT
3. BEST FREQUENCY ACCURACY	PERCENT	13. ANGULAR POSITION ACCURACY	PERCENT
4. MAXIMUM SIGNAL INPUT	VOLTS	14. MAXIMUM INITIAL MEASUREMENT TIME	SECONDS
5. MINIMUM SIGNAL INPUT	VOLTS	15. MAXIMUM TRACKING RATE	DEGREES/ SECOND
6. MAXIMUM REFERENCE INPUT	VOLTS	16. IN-PHASE RESOLUTION	NUMBER
7. MINIMUM REFERENCE INPUT	VOLTS	17. QUADRATURE RESOLUTION	NUMBER
8. BEST REFERENCE INPUT ACCURACY	PERCENT	18. SIGNAL INPUT IMPEDANCE	OHMS
9. MAXIMUM IN-PHASE RATIO	NUMBER	19. REFERENCE INPUT IMPEDANCE	OHMS
10. MAXIMUM IN-QUADRATURE RATIO	NUMBER		
A. AUTOMATIC MODE OPERATION		H. INTERNAL BATTERY POWER	
B. MANUAL MODE OPERATION		I. 50 HZ POWER	
C. REMOTE MODE OPERATION		J. 60 HZ POWER	
D. DIGITAL OUTPUT		K. 400 HZ POWER	
E. NUMERICAL DISPLAY READOUT		L. 115V AC	
F. ANALOG DISPLAY READOUT		M. 230V AC	
G. IEEE/488			

NOTES:

2. A minimum frequency of dc shall be indicated by a zero.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: BRIDGE, CAPACITANCE  
ETE GENERIC CODE: BRC

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM CAPACITANCE	FARADS	11. MAXIMUM CONDUCTANCE	MHOS
2. MAXIMUM CAPACITANCE	FARADS	12. CONDUCTANCE ACCURACY	PERCENT
3. CAPACITANCE ACCURACY	PERCENT	13. MINIMUM DISSIPATION	NUMBER
4. CAPACITANCE RESOLUTION	FARADS	14. MAXIMUM DISSIPATION	NUMBER
5. MINIMUM INTERNAL FREQUENCY	HERTZ	15. DISSIPATION ACCURACY	PERCENT
6. MAXIMUM INTERNAL FREQUENCY	HERTZ	16. VOLTAGE ACROSS UNKNOWN	VOLTS
7. INTERNAL FREQUENCY ACCURACY	PERCENT	17. MINIMUM BIAS	VOLTS
8. MINIMUM EXTERNAL FREQUENCY	HERTZ	18. MAXIMUM BIAS	VOLTS
9. MAXIMUM EXTERNAL FREQUENCY	HERTZ	19. MINIMUM BIAS	AMPERES
10. MINIMUM CONDUCTANCE	MHOS	20. MAXIMUM BIAS	AMPERES
A. MANUAL OPERATION		N. FIXED INTERNAL FREQUENCY	
B. AUTOMATIC OPERATION		O. DIRECT MEASUREMENT	
C. TWO TERMINAL		P. SUBSTITUTE MEASUREMENT	
D. THREE TERMINAL		Q. ANALOG OUTPUTS	
E. FIVE TERMINAL		R. DIGITAL OUTPUTS	
F. DC BIAS		S. RACK MOUNT CAPABILITY	
G. REMOTE CONTROL		T. INTERNAL BATTERY POWER	
H. DIGITAL READOUT		U. IEEE/488	
I. DIAL READOUT		V. 50 Hz POWER	
J. BUILT-IN DETECTOR		W. 60 Hz POWER	
K. BUILT-IN GENERATOR		X. 400 Hz POWER	
L. EXTERNAL DETECTOR		Y. 115 VAC	
M. EXTERNAL GENERATOR		Z. 230 VAC	

## NOTES:

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: BRIDGE, IMPEDANCE, RADIO FREQUENCY  
ETE GENERIC CODE: BR3

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MAXIMUM RESISTANCE	OHMS	7. MAXIMUM INTERNAL FREQUENCY	HERTZ
2. MINIMUM RESISTANCE	OHMS	8. MINIMUM INTERNAL FREQUENCY	HERTZ
3. BEST RESISTANCE ACCURACY	PERCENT	9. MAXIMUM EXTERNAL FREQUENCY	HERTZ
4. MAXIMUM REACTANCE	OHMS	10. MINIMUM EXTERNAL FREQUENCY	HERTZ
5. MINIMUM REACTANCE	OHMS	11. MAXIMUM OPEN CIRCUIT VOLTS OUT	VOLTS
6. BEST REACTANCE ACCURACY	PERCENT	12. MAXIMUM SHORT CIRCUIT CURRENT	AMPERES
A. INTERNAL BATTERY POWER		D. 400 HZ POWER	
B. 50 HZ POWER		E. 115V AC	
C. 60 HZ POWER		F. 230V AC	

NOTES:

8,10. A minimum frequency of dc shall be indicated by a zero.

11. The maximum acceptable voltage between the output terminals of the ETE.

12. The maximum required current to be available at the output terminals of the ETE.



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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: BRIDGE, RLC  
ETE GENERIC CODE: BRO

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MAXIMUM RESISTANCE	OHMS	13. MAXIMUM INTERNAL FREQUENCY	HERTZ
2. MINIMUM RESISTANCE	OHMS	14. MINIMUM INTERNAL FREQUENCY	HERTZ
3. BEST RESISTANCE ACCURACY	PERCENT	15. MAXIMUM EXTERNAL FREQUENCY	HERTZ
4. RESISTANCE RANGE BEST RESOLUTION	OHMS	16. MINIMUM EXTERNAL FREQUENCY	HERTZ
5. MAXIMUM CAPACITANCE	FARADS	17. MAXIMUM EXTERNAL DC BIAS VOLTAGE	VOLTS
6. MINIMUM CAPACITANCE	FARADS	18. MINIMUM EXTERNAL DC BIAS VOLTAGE	VOLTS
7. BEST CAPACITANCE ACCURACY	PERCENT	19. MAXIMUM OPEN CIRCUIT AC VOLTS OUT	VOLTS
8. CAPACITANCE RANGE BEST RESOLUTION	FARADS	20. MAXIMUM AC SHORT CIRCUIT CURRENT	AMPERES
9. MAXIMUM INDUCTANCE	HENRYS	21. MAXIMUM OPEN CIRCUIT DC VOLTS OUT	VOLTS
10. MINIMUM INDUCTANCE	HENRYS	22. MAXIMUM DC SHORT CIRCUIT CURRENT	AMPERES
11. BEST INDUCTANCE ACCURACY	PERCENT	23. MAXIMUM DISSIPATION FACTOR	NUMBER
12. INDUCTANCE RANGE BEST RESOLUTION	HENRYS	24. MINIMUM DISSIPATION FACTOR	NUMBER
A. TWO-TERMINAL RESISTANCE		K. READS IMPEDANCE MAGNITUDE	
B. FOUR-TERMINAL RESISTANCE		L. READS ANGLE	
C. TEST LEAD TERMINALS GROUNDED		M. LEAKAGE CURRENT	
D. SERIES CAPACITANCE		N. INTERNAL BATTERY POWER	
E. PARALLEL CAPACITANCE		O. 50 HZ POWER	
F. MEASURES D FACTOR		P. 60 HZ POWER	
G. SERIES INDUCTANCE		Q. 400 HZ POWER	
H. PARALLEL INDUCTANCE		R. 115V AC	
I. MEASURES Q		S. 230V AC	
J. READS R+J FACTOR			

## NOTES:

14,16. A minimum frequency of dc shall be indicated by a zero.

19,21. The maximum acceptable voltage between the output terminals of the ETE.

20,22. The maximum required current to be available at the output terminals of the ETE.

23,24. Dissipation factor is the ratio of the energy dissipated to the energy stored in a capacitor.

A. An "X" shall be entered if a two-terminal resistance measurement capability is required of the ETE.

B. An "X" shall be entered if a four-terminal resistance measurement capability is required of the ETE.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: BRIDGE, SYNCHRO/RESOLVER, DECADE  
ETE GENERIC CODE: BR2

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MAXIMUM FREQUENCY	HERTZ	11. INPUT IMPEDANCE OF SYNCHRO	OHMS
2. MINIMUM FREQUENCY	HERTZ	12. INPUT IMPEDANCE OF RESOLVER	OHMS
3. NOMINAL FREQUENCY	HERTZ	13. TRANSFORMATION RATIO	NUMBER
4. MAXIMUM ANGLE RANGE	DEGREES	14. TRANSFORMATION RATIO ACCURACY	PERCENT
5. ANGULAR ACCURACY	SECONDS	15. TRACKING RATE	DEGREES/ SECOND
6. ANGULAR RESOLUTION	DEGREES	16. MAXIMUM SYNC TIME	SECONDS
7. SYNCHRO FIGURE OF MERIT	NUMBER	17. ISOLATION INPUT FROM OUTPUT	VOLTS
8. RESOLVER FIGURE OF MERIT	NUMBER	18. ISOLATION OF INPUT FROM CHASSIS GROUND	VOLTS
9. MAXIMUM INPUT	VOLTS	19. ISOLATION OF OUTPUT FROM CHASSIS GROUND	VOLTS
10. ERROR VOLTAGE GRADIENT	VOLTS/ SECOND		
11. INPUT IMPEDANCE OF SYNCHRO	OHMS		
A. NUMBER OF DEGREE DIALS	NUMBER	D. ISOLATED SINE OUTPUT	
B. AUTOMATIC NULL		E. ISOLATED COSINE OUTPUT	
C. NUMERICAL DIGIT READOUT		F. ELECTROSTATIC SHIELDING	

## NOTES:

2. A minimum frequency of dc shall be indicated by a zero.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: CALIBRATOR, RANGE, RADAR  
ETE GENERIC CODE: TS9

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM REPETITION RATE	PULSES/ SECOND	9. MAXIMUM MARKER PULSE WIDTH	SECONDS
2. MAXIMUM REPETITION RATE	PULSES/ SECOND	10. RANGE MARKER JITTER	SECONDS
3. MINIMUM MARKER INTERVAL	METERS	11. OUTPUT IMPEDANCE	OHMS
4. MAXIMUM MARKER INTERVAL	METERS	12. MINIMUM TRIGGER INPUT LEVEL	VOLTS
5. BEST MARKER INTERVAL ACCURACY	PERCENT	13. MAXIMUM TRIGGER INPUT LEVEL	VOLTS
6. MINIMUM MARKER AMPLITUDE	VOLTS	14. MINIMUM TRIGGER DELAY	SECONDS
7. MAXIMUM MARKER AMPLITUDE	VOLTS	15. MAXIMUM TRIGGER DELAY	SECONDS
8. MINIMUM MARKER PULSE WIDTH	SECONDS	16. MINIMUM TRIGGER OUTPUT LEVEL	VOLTS
A. POSITIVE RANGE MARKER		17. MAXIMUM TRIGGER OUTPUT LEVEL	SECONDS
B. NEGATIVE RANGE MARKER		18. MAXIMUM TRIGGER PULSE WIDTH	SECONDS
C. ADJUSTABLE RANGE MARKER LEVEL		H. OSCILLOSCOPE OUTPUT	
D. ADJUSTABLE RANGE MARKER WIDTH		I. INTERNAL BATTERY POWER	
E. POSITIVE TRIGGER		J. 50 HZ POWER	
F. NEGATIVE TRIGGER		K. 60 HZ POWER	
G. ADJUSTABLE TRIGGER LEVEL		L. 400 HZ POWER	
		M. 115V AC	
		N. 230V AC	

## NOTES:

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: CONVERTER, LOGARITHMIC  
ETE GENERIC CODE: CVO

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MAXIMUM DC INPUT LEVEL	VOLTS	12. MINIMUM FREQUENCY	HERTZ
2. MINIMUM DC INPUT LEVEL	VOLTS	13. CREST FACTOR	NUMBER
3. DYNAMIC RANGE	DECIBELS	14. COMMON MODE REJECT RATIO	DECIBELS
4. MAXIMUM AC INPUT LEVEL-RMS	VOLTS	15. MAXIMUM DC INPUT W/O DAMAGE	VOLTS
5. MINIMUM AC INPUT LEVEL-RMS	VOLTS	16. MAXIMUM AC INPUT W/O DAMAGE-RMS	VOLTS
6. MAXIMUM DC OUTPUT LEVEL	VOLTS	17. INPUT DC RESISTANCE	OHMS
7. MINIMUM DC OUTPUT LEVEL	VOLTS	18. OUTPUT DC RESISTANCE	OHMS
8. BEST DC VOLTS ACCURACY	PERCENT	19. INPUT DC CAPACITANCE	FARADS
9. BEST AC VOLTS ACCURACY	DECIBELS	20. MAXIMUM AC INPUT RESISTANCE	OHMS
10. WORST AC VOLTS ACCURACY	DECIBELS	21. MINIMUM AC INPUT CAPACITANCE	FARADS
11. MAXIMUM FREQUENCY	HERTZ		
A. TRUE RMS		G. INTERNAL BATTERY POWER	
B. DIFFERENTIAL (POTENTIOMETRIC) MODE		H. 50 HZ POWER	
C. DIGITAL OUTPUT		I. 60 HZ POWER	
D. dB RANGE		J. 400 HZ POWER	
E. INPUT ISOLATED FROM GROUND		K. 115V AC	
F. IEEE/488		L. 230V AC	

NOTES:

12. A minimum frequency of dc shall be indicated by a zero.

13. A ratio of peak to RMS volts at full scale. Degrading of the crest factor is inversely proportional to the meter deflection. The crest factor value required of the ETE shall be entered.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

EIE NOUN NAME: COUNTER, ELECTRONIC  
EIE GENERIC CODE: COO

PARAMETER	UNITS	PARAMETER	UNITS
1. MINIMUM FREQUENCY	HERTZ	14. VSUR	NUMBER
2. MAXIMUM FREQUENCY	HERTZ	15. MINIMUM PULSE WIDTH	SECONDS
3. NUMBER OF DIGITS	NUMBER	16. MINIMUM GATE TIME	SECONDS
4. BEST FREQUENCY RESOLUTION	HERTZ	17. MAXIMUM GATE TIME	SECONDS
5. SHORT-TERM STABILITY	PARTS/ MILLION	18. MINIMUM PERIOD	SECONDS
6. LONG-TERM STABILITY	PARTS/ MILLION	19. MAXIMUM PERIOD	SECONDS
7. TIME BASE ERROR-YEAR	PARTS/ MILLION	20. MINIMUM TIME INTERVAL	SECONDS
8. MAXIMUM SENSITIVITY	VOLTS	21. MAXIMUM TIME INTERVAL	SECONDS
9. DYNAMIC RANGE	DECIBELS	22. MAXIMUM TRIGGER LEVEL	VOLTS
10. MAXIMUM INPUT ATTENUATION	DECIBELS	23. MINIMUM TRIGGER LEVEL	VOLTS
11. MINIMUM INPUT ATTENUATION	DECIBELS	24. MAXIMUM FM DEVIATION TOLERATED	HERTZ
12. MAXIMUM OPERATING INPUT	VOLTS	25. MAXIMUM FM RATE TOLERATED	HERTZ
13. MAXIMUM INPUT W/O DAMAGE	VOLTS	26. MAXIMUM AM FREQUENCY TOLERATED	HERTZ
		27. MAXIMUM ACQUISITION TIME	SECONDS
		28. INPUT RESISTANCE	OHMS
		29. INPUT CAPACITANCE	FARADS
A. BURST MEASUREMENT		O. 50% AM TOLERANCE	
B. PULSED FREQUENCY AVERAGING		P. 90% AM TOLERANCE	
C. TIME INTERVAL AVERAGING		Q. 50 OHM INPUT	
D. RECIPROCAL COUNTER CAPABILITY		R. RACK MOUNT PROVISION	
E. TRIGGER LEVEL ADJUST		S. AC COUPLING	
F. NEGATIVE TRIGGER SLOPE		T. DC COUPLING	
G. POSITIVE TRIGGER SLOPE		U. IEEE/488	
H. VARIABLE SAMPLE RATE		V. INTERNAL BATTERY POWER	
I. MARKER OUTPUT		W. 50 HZ POWER	
J. 1 MHZ OUTPUT		X. 60 HZ POWER	
K. 10 MHZ OUTPUT		Y. 400 HZ POWER	
L. EXTERNAL 1 MHZ TIME BASE		Z. 115V AC	
M. EXTERNAL 10 MHZ TIME BASE		AA. 230V AC	
N. GATE OUTPUT			

## NOTES:

1. A minimum frequency of dc shall be indicated by a zero.
3. The number of digits required in the readout of the ETE.
5. The short-term stability required of the ETE internal oscillator for a period of 1 second.
6. Long-term stability refers to the required slow but predictable variation in the ETEs internal oscillator average frequency with time.
8. The lowest signal level with which the ETE is required to give a correct indication.
14. The maximum VSUR allowed of the ETE at its input.
- 18,19. The minimum and maximum periods that the ETE is required to measure.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: COUNTER, ELECTRONIC  
ETE GENERIC CODE: COO

NOTES:

24. The maximum FM deviation of the signal that the ETE shall be required to tolerate and still correctly indicate the carrier frequency.

25. The maximum FM rate of the signal at which the ETE shall be required to indicate the carrier frequency correctly.

26. The maximum AM frequency of the signal at which the ETE shall be required to indicate the carrier frequency correctly.

A. An "X" shall be entered if the capability to measure the carrier frequency of an RF pulse is required.

B. An "X" shall be entered if the capability to allow high resolution measurement on repetitive pulses is required of the ETE.

D. An "X" shall be entered if the capability to allow increased resolution without a corresponding increase in gate times is required of the ETE.

O. An "X" shall be entered if the ETE is required to indicate the carrier frequency of the input signal correctly when that signal is modulated at up to 50% AM.

P. An "X" shall be entered if the ETE is required to indicate the carrier frequency of the input signal correctly when that signal is modulated at up to 90% AM.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: COUNTER, NOISE IMPULSE, TELECOM  
ETE GENERIC CODE: TSI

PARAMETER	UNITS	PARAMETER	UNITS
1. MAXIMUM COUNTING RATE	PULSES/ SECOND	8. MAXIMUM DECIBELS PER STEP	DECIBELS
2. MAXIMUM SENSITIVITY OVERALL RANGE	dBRN	9. BEST REGISTER ATTENUATOR ACCURACY	DECIBELS
3. MAXIMUM SENSITIVITY COMMON CHANNEL RANGE	dBRN	10. MAXIMUM BRIDGING LOSS	DECIBELS
4. MAXIMUM ADJUSTMENT RANGE: LOW-LEVEL REGISTER	dBRN	11. INPUT IMPEDANCE NOISE-TO-GROUND ACROSS LINE	OHMS
5. MAXIMUM ADJUSTMENT RANGE: HIGH-LEVEL REGISTER	dBRN	12. INPUT IMPEDANCE NOISE-TO-GROUND TO GROUND	OHMS
6. MAXIMUM ADJUSTMENT RANGE: MEDIUM-LEVEL REGISTER	dBRN	13. MINIMUM FREQUENCY OF FLAT WEIGHTING	HERTZ
7. MAXIMUM ADJUSTMENT STEPS PER REGISTER	NUMBER	14. MAXIMUM FREQUENCY OF FLAT WEIGHTING	HERTZ
A. NUMBER OF IMPULSE REGISTERS	NUMBER	15. MAXIMUM COUNT TIME	MINUTES
B. DIGITS PER REGISTER	NUMBER	16. MAXIMUM DC INPUT WITHOUT DAMAGE	VOLTS
C. TIMER		N. 135 OHM INPUT IMPEDANCE	
D. HOLD CIRCUIT		O. 150 OHM INPUT IMPEDANCE	
E. MONITOR JACK		P. 600 OHM INPUT IMPEDANCE	
F. C-MESSAGE (VOICE) WEIGHTING		Q. 900 OHM INPUT IMPEDANCE	
G. 10,2-51 KHz WEIGHTING		R. TERMINATION CAPABILITY	
H. EXTERNAL WEIGHTING		S. BRIDGING CAPABILITY	
I. BUILT-IN 1010 HZ NOTCH FILTER		T. IEEE/488	
J. NOISE-TO-GROUND MEASUREMENT		U. INTERNAL BATTERY POWER	
K. INTERNAL TERMINATION		V. 50 HZ POWER	
L. BALANCED INPUT TRANSFORMER		W. 60 HZ POWER	
M. UNBALANCED INPUT TRANSFORMER		X. 400 HZ POWER	
		Y. 115V AC	
		Z. 230V AC	

## NOTES:

2,3. The most sensitive input.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: CURVE TRACER (INCLUDES BOTH SCR AND SEMICONDUCTOR TYPES)  
ETE GENERIC CODE: TE5

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM VERTICAL DEFLECTION FACTOR	AMPERES/ DIVISION	12. VOLTAGE STEPS	NUMBER
2. MAXIMUM VERTICAL DEFLECTION FACTOR	AMPERES/ DIVISION	13. VOLTAGE STEP ACCURACY	PERCENT
3. VERTICAL ACCURACY	PERCENT	14. MINIMUM SERIES RESISTANCE	OHMS
4. MINIMUM HORIZONTAL DEFLECTION FACTOR	VOLTS/ DIVISION	15. MAXIMUM SERIES RESISTANCE	OHMS
5. MAXIMUM HORIZONTAL DEFLECTION FACTOR	VOLTS/ DIVISION	16. SERIES RESISTANCE STEPS	NUMBER
6. HORIZONTAL ACCURACY	PERCENT	17. SERIES RESISTANCE ACCURACY	PERCENT
7. CURRENT STEP MINIMUM	AMPERES/STEP	18. MINIMUM VARIABLE BIAS	VOLTS
8. CURRENT STEP MAXIMUM	AMPERES/STEP	19. MAXIMUM VARIABLE BIAS	VOLTS
9. CURRENT STEPS	NUMBER	20. MINIMUM SCR TURN-OFF TIME	SECONDS
10. VOLTAGE STEP AMPLITUDE MINIMUM	VOLTS	21. MAXIMUM SCR TURN-OFF TIME	SECONDS
11. VOLTAGE STEP AMPLITUDE MAXIMUM	VOLTS	22. MINIMUM SCR TURN-OFF CURRENT	AMPERES
		23. MAXIMUM SCR TURN-OFF CURRENT	AMPERES
		24. MINIMUM SCR TURN-OFF VOLTAGE	VOLTS
		25. MAXIMUM SCR TURN-OFF VOLTAGE	VOLTS
		26. MAXIMUM COLLECTOR SUPPLY VOLTAGE	VOLTS
A. INTEGRAL DISPLAY		M. +/- COLLECTOR/ANODE/DRAIN	
B. STORAGE DISPLAY		N. DEVICE UNDER TEST PROTECTION	
C. HIGH VOLTAGE SAFETY		O. DEVICE UNDER TEST LEADS SELECTABLE	
D. REPETITIVE STEP		P. FIXED CAPACITOR COMPENSATION	
E. SINGLE STEP		Q. SCR TURN-OFF TIME TEST	
F. TESTS BIPOLAR TRANSISTORS		R. INTERNAL BATTERY POWER	
G. TESTS FIELD EFFECT TRANSISTORS		S. 50 HZ POWER	
H. TEST SIGNAL/RECTIFIER DIODES		T. 60 HZ POWER	
I. TESTS ZENER DIODES		U. 400 HZ POWER	
J. TESTS TUNNEL DIODES		V. 115V AC	
K. TESTS SCR/THYRISTORS		W. 230V AC	
L. STEP REVERSAL			

NOTES:



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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: ECHO BOX  
ETE GENERIC CODE: EBO

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM FREQUENCY	HERTZ	5. INPUT IMPEDANCE	OHMS
2. MAXIMUM FREQUENCY	HERTZ	6. MINIMUM LOADED Q	NUMBER
3. FREQUENCY ACCURACY	HERTZ	7. VSWR	NUMBER
4. DIAL RESOLUTION	HERTZ		
A. TUNED INPUT		G. 50 HZ POWER	
B. UNTUNED INPUT		H. 60 HZ POWER	
C. CRYSTAL DIODE CHECKER		I. 400 HZ POWER	
D. RESONANCE INDICATION METER		J. 115V AC	
E. SENSITIVITY CONTROL		K. 230V AC	
F. MOTOR DRIVEN			

## NOTES:

- The Q required of the ETE under working conditions.
- The maximum VSWR to be allowed of the ETE at its input.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: GENERATOR, DATA, TELECOM  
ETE GENERIC CODE: TSH

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. 1.2K BPS DIFFERENTIALLY ENCODED DIFFERENTIAL OUTPUT	VOLTS PEAK-PEAK	10. FREQUENCY-SHIFT-KEYED 85 HZ LOW CHANNEL FREQUENCY	HERTZ
2. 1.2K BPS DIFFERENTIALLY ENCODED POLAR OUTPUT	dBm	11. FREQUENCY-SHIFT-KEYED 85 HZ HIGH CHANNEL FREQUENCY	HERTZ
3. MAXIMUM VARIABLE DIFFERENTIALLY ENCODED POLAR OUTPUT	dBm	12. FREQUENCY-SHIFT-KEYED 85 HZ NUMBER OF CHANNELS	NUMBER
4. MINIMUM VARIABLE DIFFERENTIALLY ENCODED POLAR OUTPUT	dBm	13. DC LOW LEVEL DRY KEY OUTPUT	VOLTS
5. FREQUENCY-SHIFT-KEYED AUDIO FREQUENCY MAXIMUM OUTPUT LEVEL	dBm	14. OUTPUT BIT RATE SPEED ACCURACY	PERCENT
6. FREQUENCY-SHIFT-KEYED AUDIO FREQUENCY MINIMUM OUTPUT LEVEL	dBm	15. MAXIMUM VARIABLE TIMING DISTORTION	PERCENT
7. FREQUENCY-SHIFT-KEYED AUDIO FREQUENCY OUTPUT LEVEL ACCURACY	dBm	16. MINIMUM VARIABLE TIMING DISTORTION	PERCENT
8. FREQUENCY-SHIFT-KEYED 850 HZ CENTER FREQUENCY	HERTZ	17. 1.2K BPS DIFFERENTIALLY ENCODED DIFFERENTIAL OUTPUT IMPEDANCE	OHMS
9. FREQUENCY-SHIFT-KEYED 200 HZ CENTER FREQUENCY	HERTZ	18. 1.2K BPS DIFFERENTIALLY ENCODED POLAR OUTPUT IMPEDANCE	OHMS
A. PROGRAMMABLE READ ONLY MEMORY (PROM)		19. VARIABLE DIFFERENTIALLY ENCODED POLAR OUTPUT IMPEDANCE	OHMS
B. STEADY SPACE		20. FREQUENCY-SHIFT-KEYED OUTPUT IMPEDANCE	OHMS
C. STEADY MARK		S. 300 BPS VARIABLE DIFFERENTIALLY ENCODED POLAR OUTPUT	
D. REVERSAL		T. 600 BPS VARIABLE DIFFERENTIALLY ENCODED POLAR OUTPUT	
E. CLEAR FOX MESSAGE		U. 1200 BPS VARIABLE DIFFERENTIALLY ENCODED POLAR OUTPUT	
F. ENCRYPTED FOX MESSAGE		V. 2400 BPS VARIABLE DIFFERENTIALLY ENCODED POLAR OUTPUT	
G. ENCRYPTED CYCLE		W. 4800 BPS VARIABLE DIFFERENTIALLY ENCODED POLAR OUTPUT	
H. POSITIVE SENSE KEY		X. 9600 BPS VARIABLE DIFFERENTIALLY ENCODED POLAR OUTPUT	
I. NEGATIVE SENSE KEY		Y. IEEE/488	
J. HI DC DRY KEY		Z. INTERNAL BATTERY POWER	
K. LOW DC WET KEY		AA. 50 HZ POWER	
L. DISTORTION LAMP		BB. 60 HZ POWER	
M. ANALOG		CC. 400 HZ POWER	
N. DIGITAL		DD. 115V AC	
O. PORTABLE		EE. 230V AC	
P. 45.5 BPS VARIABLE DIFFERENTIALLY ENCODED POLAR OUTPUT			
Q. 75 BPS VARIABLE DIFFERENTIALLY ENCODED POLAR OUTPUT			
R. 150 BPS VARIABLE DIFFERENTIALLY ENCODED POLAR OUTPUT			

NOTES:

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: GENERATOR, DISTORTION, ITY  
ETE GENERIC CODE: TSG

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM INTERNAL BAUD RATE	BAUDS	7. DISTORTION RESOLUTION	PERCENT
2. MAXIMUM INTERNAL BAUD RATE	BAUDS	8. BEST BIAS DISTORTION ACCURACY	PERCENT
3. MINIMUM EXTERNAL BAUD RATE	BAUDS	9. END DISTORTION	PERCENT
4. MAXIMUM EXTERNAL BAUD RATE	BAUDS	10. CODE BITS	NUMBER
5. MINIMUM AVERAGE BIAS DISTORTION	PERCENT	11. TEST MESSAGE CHARACTERS	NUMBER
6. MAXIMUM AVERAGE BIAS DISTORTION	PERCENT		
A. EVEN PARITY		M. ITA NO-2	
B. ODD PARITY		N. US ASCII	
C. NEUTRAL		O. FIELDATA	
D. POLAR		P. ITA NO-5	
E. HIGH LEVEL		Q. EIA RS-232	
F. LOW LEVEL		R. IEEE/488	
G. SYNCHRONOUS		S. INTERNAL BATTERY POWER	
H. ASYNCHRONOUS		T. 50 HZ POWER	
I. INTERNAL LOOP SUPPLY		U. 60 HZ POWER	
J. FOX MESSAGE		V. 400 HZ POWER	
K. PROGRAMMABLE MESSAGE		W. 115V AC	
L. MORSE CODE WORD		X. 230V AC	

## NOTES:

5,6. Bias distortion is the uniform shifting of positive-going transitions from their proper positions in relation to the start pulse.

9. A shifting of the ends of all marking pulses of a start-stop teletypewriter signal from their proper positions relative to the beginning of the start pulse.

N. American Standard Code of Information Interchange.

S. Applies to source power, not loop supply.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: GENERATOR, FUNCTION (INCLUDES SPECIAL TYPES SUCH AS SAWTOOTH, SINE WAVE, AND RAMP)  
ETE GENERIC CODE: GE7

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MAXIMUM OUTPUT FREQUENCY	HERTZ	11. MINIMUM SQUARE-WAVE OUTPUT	VOLTS PEAK-PEAK
2. MINIMUM OUTPUT FREQUENCY	HERTZ	12. MAXIMUM RAMP OUTPUT	VOLTS PEAK-PEAK
3. BEST RATED FREQUENCY ACCURACY	PERCENT	13. MINIMUM RAMP OUTPUT	VOLTS PEAK-PEAK
4. BEST RATED FREQUENCY STABILITY	PARTS/ MILLION/ HOUR	14. MAXIMUM TRIANGLE OUTPUT	VOLTS PEAK-PEAK
5. MAXIMUM SINE-WAVE OUTPUT LEVEL	VOLTS	15. MINIMUM TRIANGLE OUTPUT	VOLTS PEAK-PEAK
6. MINIMUM SINE-WAVE OUTPUT LEVEL	VOLTS	16. MAXIMUM PULSE OUTPUT	VOLTS PEAK-PEAK
7. OUTPUT LEVEL ACCURACY	PERCENT		
8. BEST RATED DISTORTION	PERCENT		
9. OUTPUT IMPEDANCE	OHMS		
10. MAXIMUM SQUARE-WAVE OUTPUT	VOLTS PEAK-PEAK		
A. CONTINUOUS FREQUENCY		J. DC OFFSET	
B. IEEE/488		K. VARIABLE PULSE DELAY	
C. CONTINUOUS LEVEL ADJUST		L. INTERNAL BATTERY POWER	
D. SQUARE-WAVE OUTPUT		M. 50 HZ POWER	
E. TRIANGLE OUTPUT		N. 60 HZ POWER	
F. SYNC-PULSE OUTPUT		O. 400 HZ POWER	
G. SYNC-LOCK INPUT		P. 115V AC	
H. SYMMETRY CONTROL		Q. 230V AC	
I. STEP ATTENUATOR			

NOTES:

2. A minimum frequency of dc shall be indicated by a zero.

A. A generator is considered to have a continuous output frequency if it covers all frequencies between the minimum and maximum specified output frequencies. When a continuously variable frequency is required, an "X" is entered. A synthesized generator is generally not considered to have a continuous output.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: GENERATOR, NOISE  
ETE GENERIC CODE: GE3

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM FREQUENCY	HERTZ	7. OUTPUT EXCESS NOISE RATIO	DECIBELS
2. MAXIMUM FREQUENCY	HERTZ	8. CLOCK FREQUENCY	HERTZ
3. MAXIMUM FREQUENCY DRIFT	PARTS/ MILLION	9. BINARY SEQUENCE LENGTH	NUMBER
4. OUTPUT LEVEL	VOLTS	10. SOURCE IMPEDANCE	OHMS
5. OUTPUT FLATNESS	DECIBELS	11. MINIMUM BINARY LOAD IMPEDANCE	OHMS
6. POWER DENSITY	VOLTS SQUARED/ HERTZ	12. MINIMUM GAUSSIAN LOAD IMPEDANCE	OHMS
A. WHITE NOISE		13. MINIMUM BINARY PULSE RISE TIME	SECONDS
B. PINK NOISE		14. MAXIMUM GAUSSIAN CREST FACTOR	NUMBER
C. TRUE RANDOM NOISE		15. OUTPUT VSWR	NUMBER
D. PSEUDORANDOM NOISE		I. IEEE/488	
E. EXTERNAL CLOCK		J. INTERNAL BATTERY POWER	
F. DELAYED BINARY OUTPUT		K. 50 HZ POWER	
G. VARIABLE ATTENUATOR		L. 60 HZ POWER	
H. STEP ATTENUATOR		M. 400 HZ POWER	
		N. 115V AC	
		O. 230V AC	

## NOTES:

5. The total variation of the ETE output level across the frequency band expressed as a ratio between minimum and maximum output levels. For example, a requirement for +/-5 dB flatness from a reference level shall be recorded as 10 dB.

7. In reference to a noise generator, the ratio of its noise power output to thermal power is called the excess noise ratio (ENR) in dB.

15. The maximum VSWR to be allowed of the ETE at its output shall be indicated.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: GENERATOR, PULSE  
ETE GENERIC CODE: GE2

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM PULSE RATE	HERTZ	11. MAXIMUM PULSE WIDTH	SECONDS
2. MAXIMUM PULSE RATE	HERTZ	12. MINIMUM DUTY CYCLE	PERCENT
3. BEST PULSE RATE ACCURACY	PERCENT	13. MAXIMUM DUTY CYCLE	PERCENT
4. MINIMUM PULSE OUTPUT	VOLTS PEAK- PEAK	14. MINIMUM PULSE DELAY	SECONDS
5. MAXIMUM PULSE OUTPUT	VOLTS PEAK- PEAK	15. MAXIMUM PULSE DELAY	SECONDS
6. BEST OUTPUT PULSE LEVEL ACCURACY	PERCENT	16. BEST RATED JITTER	PERCENT
7. OUTPUT IMPEDANCE	OHMS	17. MAXIMUM PULSE ABERRATION	PERCENT
8. MINIMUM RISE TIME	SECONDS	18. MAXIMUM SYNC OUTPUT SIGNAL	VOLTS PEAK- PEAK
9. MINIMUM FALL TIME	SECONDS	19. MAXIMUM POSITIVE OFFSET	VOLTS
10. MINIMUM PULSE WIDTH	SECONDS	20. MAXIMUM NEGATIVE OFFSET	VOLTS
A. POSITIVE PULSE OUTPUT		K. TRIGGER PULSE OUTPUT	
B. NEGATIVE PULSE OUTPUT		L. ADJUSTABLE DELAY	
C. SINGLE PULSE CAPABILITY		M. INTERNAL LOAD	
D. DOUBLE PULSE CAPABILITY		N. INTERNAL LOAD SWITCH	
E. NUMBER OF PULSE OUTPUTS	NUMBER	O. INTERNAL BATTERY POWER	
F. GATED OPERATION		P. 50 HZ POWER	
G. ADJUSTABLE RISE TIME		Q. 60 HZ POWER	
H. ADJUSTABLE FALL TIME		R. 400 HZ POWER	
I. ADJUSTABLE PULSE DURATION		S. 115V AC	
J. PULSE SYNC FROM EXTERNAL SIGNAL		T. 230V AC	

## NOTES:

7. When both the output impedance and a minimum acceptable load resistance are required, the higher value shall be entered.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: GENERATOR, PULSED CARRIER  
ETE GENERIC CODE: GES

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MAXIMUM CARRIER FREQUENCY	HERTZ	8. ON-OFF RATIO	DECIBELS
2. MINIMUM CARRIER FREQUENCY	HERTZ	9. MAXIMUM PULSE RATE	HERTZ
3. BEST FREQUENCY ACCURACY	PERCENT	10. MINIMUM PULSE RATE	HERTZ
4. MAXIMUM RF OUTPUT	VOLTS	11. BEST RISE TIME	SECONDS
5. RF OUTPUT ACCURACY	PERCENT	12. BEST FALL TIME	SECONDS
6. MAXIMUM ATTENUATION	DECIBELS	13. MAXIMUM PULSE WIDTH	SECONDS
7. RF OUTPUT IMPEDANCE	OHMS	14. MINIMUM PULSE WIDTH	SECONDS
A. CW OPERATION		H. ADJUSTABLE PULSE WIDTH	
B. SYNC OUTPUT		I. INTERNAL BATTERY POWER	
C. EXTERNAL TRIGGER INPUT		J. 50 HZ POWER	
D. EXTERNAL PULSE MODULATION		K. 60 HZ POWER	
E. STEP ATTENUATOR		L. 400 HZ POWER	
F. VIDEO PULSE OUT		M. 115V AC	
G. ADJUSTABLE PULSE RATE		N. 230V AC	

## NOTES:

2. A minimum frequency of dc shall be indicated by a zero.

8. The ratio required between the levels of the carrier when it is pulsed ON and when it is pulsed OFF. For the "Parameter Value Required by System" value, the minimum ratio required of the ETE shall be entered. For the "Recommended Maintenance ETE Parameter" value, the maximum capability of the ETE shall be entered.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

EIE NOUN NAME: GENERATOR, SIGNAL, CW  
EIE GENERIC CODE: GEO

PARAMETER	UNITS	PARAMETER	UNITS
1. MAXIMUM OUTPUT FREQUENCY	HERTZ	12. OUTPUT LEVEL FLATNESS	PERCENT
2. MINIMUM OUTPUT FREQUENCY	HERTZ	13. BEST AMPLITUDE RESOLUTION-RMS	VOLTS
3. BEST RATED FREQUENCY ACCURACY	PERCENT	14. MAXIMUM OUTPUT ATTENUATOR SETTING	DECIBELS
4. BEST RATED FREQUENCY DIAL ACCURACY	PERCENT	15. MINIMUM OUTPUT ATTENUATOR SETTING	DECIBELS
5. BEST RATED FREQUENCY STABILITY	PARTS/ MILLION/ HOUR	16. BEST RATED ATTENUATOR ACCURACY	DECIBELS
6. BEST FREQUENCY RESOLUTION	HERTZ	17. ATTENUATION PER STEP	DECIBELS
7. FREQUENCY RANGES	NUMBER	18. BEST RATED DISTORTION	PERCENT
8. MINIMUM FREQUENCY OVERRANGE	PERCENT	19. MAXIMUM HARMONIC DISTORTION	dBc
9. MAXIMUM OUTPUT LEVEL-RMS	VOLTS	20. MAXIMUM SPURIOUS OUTPUTS	dBc
10. MINIMUM OUTPUT LEVEL-RMS	VOLTS	21. MAXIMUM OUTPUT HUM	PERCENT
11. BEST RATED AMPLITUDE ACCURACY	DECIBELS	22. MAXIMUM OUTPUT NOISE	PERCENT
		23. OUTPUT IMPEDANCE	OHMS
A. CONTINUOUS FREQUENCY		J. TRACKING OUTPUT	
B. CONTINUOUS LEVEL ADJUST		K. DIGITAL READOUT	
C. SYNTHESIZER		L. IEEE/488	
D. SYNC LOCK INPUT		M. INTERNAL BATTERY POWER	
E. STEP ATTENUATOR		N. 50 HZ POWER	
F. OUTPUT MONITOR		O. 60 HZ POWER	
G. SYNC PULSE OUTPUT		P. 400 HZ POWER	
H. LOW-LEVEL OUTPUT		Q. 115V AC	
I. REFERENCE OUTPUT		R. 230V AC	

## NOTES:

1. A minimum frequency of dc shall be indicated by a zero.

2. Applies to those EIE using a digital or numerical frequency readout device. The value required of the EIE shall be indicated.

3. Applies to those EIE using a single-band or multiband frequency tuning device. Indicate the value required of the EIE.

18. Applies to nonsynthesized equipment.

19,20. Applies to synthesized equipment.

A. A generator is considered to have a continuous output frequency if it covers all frequencies between the minimum and maximum specified output frequencies. When a continuously variable frequency is required, an "X" is entered. A synthesized generator is generally not considered to have a continuous output.

B. An "X" shall be entered if the EIE output level is required to be continuously adjustable. A step attenuator is not considered to be continuously adjustable.



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## WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: GENERATOR, SIGNAL, MICROWAVE  
ETE GENERIC CODE: GEA

PARAMETER	UNITS	PARAMETER	UNITS
1. MAXIMUM OUTPUT FREQUENCY	HERTZ	21. MAXIMUM AM DEPTH	PERCENT
2. MINIMUM OUTPUT FREQUENCY	HERTZ	22. MAXIMUM INTERNAL FM DEVIATION	HERTZ
3. BEST RATED FREQUENCY ACCURACY	PERCENT	23. MINIMUM INTERNAL FM DEVIATION	HERTZ
4. BEST RATED FREQUENCY INDICATOR ACCURACY	PERCENT SETTING	24. MAXIMUM SYNC OUTPUT SIGNAL RISE TIME	SECONDS
5. BEST RATED FREQUENCY STABILITY	PARTS/ MILLION/ HOUR	25. MAXIMUM SYNC OUTPUT LEVEL	VOLTS RMS
6. MAXIMUM OUTPUT LEVEL	dBm	26. MAXIMUM DELAYED SYNC OUTPUT DELAY	SECONDS
7. MINIMUM OUTPUT LEVEL	dBm	27. RF OUTPUT CONNECTOR	TYPE
8. MAXIMUM UNCALIBRATED OUTPUT LEVEL	dBm	28. BEST RATED DISTORTION	PERCENT
9. BEST OUTPUT LEVEL FLATNESS	DECIBELS	29. MAXIMUM HARMONIC DISTORTION	dBc
10. MAXIMUM OUTPUT ATTENUATOR SETTING	DECIBELS	30. MAXIMUM SPURIOUS OUTPUTS	dBc
11. MINIMUM OUTPUT ATTENUATOR SETTING	DECIBELS	31. MAXIMUM RESIDUAL FM	HERTZ
12. BEST RATED OUTPUT LEVEL ACCURACY	PERCENT	32. EXTERNAL MODULATOR MAXIMUM FREQUENCY	HERTZ
13. OUTPUT IMPEDANCE	OHMS	33. EXTERNAL MODULATOR MINIMUM FREQUENCY	HERTZ
14. MAXIMUM PULSE REPETITION RATE	PULSES/ SECOND	34. EXTERNAL MODULATOR MAXIMUM INTERNAL MODULATION FREQUENCY	HERTZ
15. MINIMUM PULSE REPETITION RATE	PULSES/ SECOND	35. EXTERNAL MODULATOR MINIMUM INTERNAL MODULATION FREQUENCY	HERTZ
16. MAXIMUM PULSE WIDTH	SECONDS	36. EXTERNAL MODULATOR MAXIMUM PULSE WIDTH	SECONDS
17. MINIMUM PULSE WIDTH	SECONDS	37. EXTERNAL MODULATOR MINIMUM PULSE WIDTH	SECONDS
18. MAXIMUM INTERNAL MODULATION FREQUENCY	HERTZ	38. EXTERNAL MODULATOR MAXIMUM INTERNAL PULSE DELAY	SECONDS
19. MINIMUM INTERNAL MODULATION FREQUENCY	HERTZ	39. EXTERNAL MODULATOR MINIMUM INTERNAL PULSE DELAY	SECONDS
20. MAXIMUM ON-OFF RATIO	DECIBELS		
A. INTERNAL PULSE MODULATION		S. MODULATOR EXTERNAL PULSE MODULATION	
B. INTERNAL SQUARE-WAVE MODULATION			
C. INTERNAL FM		T. MODULATOR EXTERNAL FM	
D. INTERNAL AM		U. MODULATOR EXTERNAL AM	
E. EXTERNAL PULSE MODULATION		V. CONTINUOUS FREQUENCY	
F. EXTERNAL SQUARE-WAVE MODULATION		W. SYNTHESIZED OUTPUT	
G. EXTERNAL FM		X. CONTINUOUS LEVEL ADJUST	
H. EXTERNAL AM		Y. CONTINUOUS MODULATION LEVEL ADJUST	
I. SYNC OUTPUT SIGNAL			
J. DELAYED SYNC OUTPUT SIGNAL		Z. STEP ATTENUATOR	
K. EXTERNAL SYNC IN		AA. DIGITAL/NUMERICAL FREQUENCY DISPLAY	
L. UNCALIBRATED RF OUTPUT			
M. AUXILIARY MODULATOR		BB. DIGITAL/NUMERICAL AMPLITUDE DISPLAY	
N. MODULATOR INTERNAL SQUARE-WAVE MODULATION			
O. MODULATOR INTERNAL PULSE MODULATION		CC. IEEE/488	
P. MODULATOR INTERNAL FM		DD. INTERNAL BATTERY POWER	
Q. MODULATOR INTERNAL AM		EE. 50 HZ POWER	
R. MODULATOR EXTERNAL SQUARE-WAVE MODULATION		FF. 60 HZ POWER	
		GG. 400 HZ POWER	
		HH. 115V AC	
		II. 230V AC	

NOTES:

3. Applies to ETE using a digital or numerical frequency readout device. The value required of the ETE shall be indicated.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: GENERATOR, SIGNAL, MICROWAVE  
ETE GENERIC CODE: GEA

NOTES:

4. Applies to ETE using a single-band or multiband frequency tuning device. The value required of the ETE shall be indicated.

6,7. Output level is the calibrated output signal level from the ETE. The largest and smallest values required of the ETE shall be entered in the appropriate spaces.

14,15,16,17. Applies to ETE with internal pulse modulation. If internal pulse modulation capabilities are required of the ETE, the value required shall be entered.

20. Applies to ETE with internal square-wave modulation. If this capability is required of the ETE, the required values shall be entered.

29,30. Applies to synthesized ETE. If a synthesized ETE item is required, the values required shall be entered.

32,33,34,35,36,37,38,39,N,O,P,Q,R,S,T,U. If the ETE is required to have an external modulator, the requirements of the external modulator shall be entered.

V. A generator is considered to have a continuous output frequency if it covers all frequencies between the minimum and maximum specified output frequencies. When a continuously variable frequency is required, an "X" is entered. A synthesized generator is generally not considered to have a continuous output.

X. An "X" shall be entered if a continuously adjustable output level is required of the ETE. A step attenuator is not considered to be continuously adjustable.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: GENERATOR, SIGNAL, RADIO FREQUENCY  
ETE GENERIC CODE: GEB

PARAMETER	UNITS	PARAMETER	UNITS
1. MINIMUM FREQUENCY	HERTZ	23. BEST AM ACCURACY	PERCENT
2. MAXIMUM FREQUENCY	HERTZ	24. MAXIMUM AM DISTORTION	PERCENT
3. BEST FREQUENCY ACCURACY	PERCENT	25. MAXIMUM EXTERNAL FM FREQUENCY	HERTZ
4. BEST FREQUENCY INDICATOR ACCURACY	PERCENT	26. MINIMUM EXTERNAL FM FREQUENCY	HERTZ
5. BEST FREQUENCY RESOLUTION	HERTZ	27. MAXIMUM FM DEVIATION	HERTZ
6. BEST FREQUENCY INDICATOR RESETTABILITY	HERTZ	28. MINIMUM FM DEVIATION	HERTZ
7. BEST FREQUENCY STABILITY	HERTZ	29. BEST FM DEVIATION ACCURACY	PERCENT
8. MINIMUM OUTPUT LEVEL	VOLTS	30. MAXIMUM FM DISTORTION	PERCENT
9. MAXIMUM OUTPUT LEVEL	VOLTS	31. MAXIMUM RESIDUAL FM	HERTZ
10. BEST OUTPUT LEVEL ACCURACY	PERCENT	32. MAXIMUM RESIDUAL AM	dBc
11. OUTPUT LEVEL FLATNESS	DECIBELS	33. MAXIMUM SPURIOUS SIGNALS OUTPUT	dBc
12. MAXIMUM OUTPUT ATTENUATOR SETTING	dBm	34. MAXIMUM INTERNAL PULSE MODULATION FREQUENCY	PULSES/SECOND
13. MINIMUM OUTPUT ATTENUATOR SETTING	dBm	35. MINIMUM INTERNAL PULSE MODULATION FREQUENCY	PULSES/SECOND
14. OUTPUT ATTENUATOR STEPS	NUMBER	36. MAXIMUM EXTERNAL PULSE MODULATION FREQUENCY	PULSES/SECOND
15. BEST OVERALL ATTENUATOR ACCURACY	DECIBELS	37. MINIMUM EXTERNAL PULSE MODULATION FREQUENCY	PULSES/SECOND
16. OUTPUT IMPEDANCE	OHMS	38. MAXIMUM RISE TIME	SECONDS
17. OUTPUT VSWR	NUMBER	39. MAXIMUM ON/OFF RATIO	DECIBELS
18. MAXIMUM INTERNAL MODULATION FREQUENCY	HERTZ	40. MAXIMUM REVERSE POWER PROTECTION	VOLTS RMS
19. MINIMUM INTERNAL MODULATION FREQUENCY	HERTZ		
20. MAXIMUM EXTERNAL AM FREQUENCY	HERTZ		
21. MINIMUM EXTERNAL AM FREQUENCY	HERTZ		
22. MAXIMUM AM DEPTH	PERCENT		
A. DIGITAL FREQUENCY DISPLAY		U. EXTERNAL PULSE MODULATION	
B. NUMERICAL FREQUENCY DISPLAY		V. FREQUENCY PHASE LOCK	
C. FRONT-PANEL KEYBOARD FREQUENCY TUNING		W. INTERNAL FREQUENCY COUNTER	
D. CONTINUOUS FREQUENCY		X. INTERNAL VARIABLE AUDIO OSCILLATOR OUTPUT	
E. STEP FREQUENCY		Y. INTERNAL FM DEVIATION METER	
F. STEP ATTENUATOR		Z. SYNTHESIZED OUTPUT	
G. CONTINUOUS LEVEL ADJUST		AA. AUTOMATIC LEVEL CONTROL	
H. DIGITAL SWEEP		BB. INTERNAL PHASE MODULATION	
I. AUTOMATIC SWEEP		CC. EXTERNAL PHASE MODULATION	
J. MANUAL SWEEP		DD. DIGITAL OUTPUT LEVEL INDICATOR	
K. SINGLE SWEEP		EE. SYNC PULSE OUTPUT	
L. FREQUENCY STEPPING		FF. REFERENCE OUTPUT	
M. VARIABLE STEP SIZE		GG. TRACKING OUTPUT	
N. STEP-UP CONTROL		HH. IEEE/488	
O. STEP-DOWN CONTROL		II. INTERNAL BATTERY POWER	
P. INTERNAL AM		JJ. 50 HZ POWER	
Q. EXTERNAL AM		KK. 60 HZ POWER	
R. INTERNAL FM		LL. 400 HZ POWER	
S. EXTERNAL FM		MM. 115V AC	
T. INTERNAL PULSE MODULATION		NN. 230V AC	

## NOTES:

3. Applies to ETE using a digital or numerical frequency readout device. The value required of the ETE shall be entered.

4. Applies to ETE using a single-band or multiband frequency tuning device. The value required of the ETE shall be entered.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: GENERATOR, SIGNAL, RADIO FREQUENCY  
ETE GENERIC CODE: GEB

NOTES:

8,9. Output level is the calibrated output signal level from the ETE. The smallest and largest values required of the ETE shall be entered in the appropriate spaces.

11. The total variation of the ETE output level across the frequency band expressed as a ratio between minimum and maximum output levels. For example, a requirement for +/- 5 dB flatness from a reference level shall be recorded as 10 dB.

17. The worst-case VSWR that can be tolerated from the ETE shall be entered.

B. An "X" shall be entered if use of thumbwheel tuning is required of the ETE.

D. A generator is considered to have a continuous output frequency if it covers all frequencies between the minimum and maximum specified output frequencies. When a continuously variable frequency is required, an "X" is entered. A synthesized generator is generally not considered to have a continuous output.

G. An "X" shall be entered if a continuously adjustable output level is required of the ETE. A step attenuator is not considered to be continuously adjustable.

H,I,J,K. An "X" shall be entered for the appropriate sweeps if digital sweep capability is required of the ETE.

L,M,N,O. If frequency stepping capability is required of the ETE, an "X" shall be entered for the applicable functions.

W. If the ETE is required to have an internal frequency counter that can read internal and external frequencies, an "X" shall be entered.

Y. If the ETE is required to have an internal deviation meter that can read external FM deviation, an "X" shall be entered.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: GENERATOR, SIMULATOR, RADIO FREQUENCY  
ETE GENERIC CODE: GE9

PARAMETER	UNITS	PARAMETER	UNITS
1. LF-MF-HF OUTPUT MINIMUM FREQUENCY	HERTZ	12. FAST FADE RATE	HERTZ
2. LF-MF-HF OUTPUT MAXIMUM FREQUENCY	HERTZ	13. MAXIMUM SLOW FADE MODE OUTPUT	dBm
3. UHF OUTPUT MINIMUM FREQUENCY	HERTZ	14. MAXIMUM FAST FADE MODE OUTPUT	dBm
4. UHF OUTPUT MAXIMUM FREQUENCY	HERTZ	15. MAXIMUM DIVERSITY FADE MODE OUTPUT	dBm
5. LF-MF-HF RF OUTPUT MINIMUM LEVEL	dBm	16. SINGLE SIDEBAND CARRIER SUPPRESSION	DECIBELS
6. LF-MF-HF RF OUTPUT MAXIMUM LEVEL	dBm	17. AF INPUT MINIMUM FREQUENCY	HERTZ
7. LF-MF-HF RF OUTPUT LEVEL ACCURACY	DECIBELS	18. AF INPUT MAXIMUM FREQUENCY	HERTZ
8. UHF RF OUTPUT MINIMUM LEVEL	dBm	19. AF INPUT LEVEL	dBm
9. UHF RF OUTPUT MAXIMUM LEVEL	dBm	20. AF INPUT IMPEDANCE	OHMS
10. UHF RF OUTPUT LEVEL ACCURACY	DECIBELS	21. INTERNAL STANDARD FREQUENCY	HERTZ
11. SLOW FADE RATE	HERTZ	22. INTERNAL STANDARD FREQUENCY ACCURACY	PERCENT
A. DIGITAL FREQUENCY DISPLAY		K. MANUAL FADE	
B. LF-MF-HF VARIABLE FREQUENCY		L. DIVERSITY FADE	
C. NUMBER OF UHF FREQUENCIES	NUMBER	M. EXTERNAL AUDIO FREQUENCY INPUT	
D. DUAL RF OUTPUT		N. EXTERNAL AUDIO MODULATING SOURCE INPUT	
E. DOUBLE SIDEBAND SUPPRESSED RF CARRIER OUTPUT		O. AUDIO FREQUENCY INDICATOR	
F. CONTINUOUSLY VARIABLE OUTPUT		P. EXTERNAL FREQUENCY STANDARD	
G. 75 BITS PER SECOND DIFFERENTIAL POLAR INPUT		Q. INTERNAL BATTERY POWER	
H. 1200 BITS PER SECOND DIFFERENTIAL POLAR INPUT		R. 50 HZ POWER	
I. SLOW FADE		S. 60 HZ POWER	
J. FAST FADE		T. 400 HZ POWER	
		U. 115V AC	
		V. 230V AC	

## NOTES:

1,2,5,6,7. "LF-MF-HF output" refers to an output covering the frequencies generally classified as belonging to these bands.

3,4,8,9,10. "UHF output" refers to an output having frequencies generally classified as belonging to this band.

1,3,17. A minimum frequency of dc shall be indicated by a zero.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: GENERATOR, SQUARE WAVE  
ETE GENERIC CODE: GSQ

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM FREQUENCY	HERTZ	10. MAXIMUM OUTPUT	VOLTS
2. MAXIMUM FREQUENCY	HERTZ	11. OUTPUT ACCURACY	PERCENT
3. FREQUENCY ACCURACY	PERCENT	12. OUTPUT IMPEDANCE	OHMS
4. RISE TIME	SECONDS	13. MINIMUM SYNC INPUT	VOLTS PEAK- PEAK
5. FALL TIME	SECONDS	14. MAXIMUM SYNC INPUT	VOLTS PEAK- PEAK
6. ABERRATIONS	PERCENT	15. TRIGGER OUTPUT	VOLTS PEAK
7. MINIMUM DUTY CYCLE	PERCENT		
8. MAXIMUM DUTY CYCLE	PERCENT		
9. MINIMUM OUTPUT	VOLTS		
A. CONTINUOUS FREQUENCY		H. IEEE/488	
B. FAST RISE OUTPUT		I. 50 Hz POWER	
C. HI AMPLITUDE OUTPUT		J. 60 Hz POWER	
D. SYMMETRY ADJUST		K. 400 Hz POWER	
E. VARIABLE OUTPUT		L. 115 VAC	
F. TRIGGER OUTPUT		M. 230 VAC	
G. SYNC INPUT			

NOTES:

1. A minimum frequency of dc shall be indicated by a zero.

A. A generator is considered to have a continuous output frequency if it covers all frequencies between the minimum and maximum specified output frequencies. When a continuously variable frequency is required, an "X" is entered. A synthesized generator is generally not considered to have a continuous output.

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## WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: GENERATOR, SWEEP  
ETE GENERIC CODE: GE1

PARAMETER	UNITS	PARAMETER	UNITS
1. MAXIMUM OUTPUT FREQUENCY	HERTZ	15. INTERNAL MARKER ACCURACY	PERCENT
2. MINIMUM OUTPUT FREQUENCY	HERTZ	16. CW MODE MAXIMUM AM	PERCENT
3. BEST FREQUENCY DIAL RESOLUTION	HERTZ	17. CW MODE MAXIMUM FM	HERTZ-PEAK
4. CW MODE FREQUENCY DIAL ACCURACY	PERCENT	18. MAXIMUM DISCRETE AM FREQUENCY	HERTZ
5. MAXIMUM DISPLAY LINEARITY	PERCENT	19. MINIMUM DISCRETE AM FREQUENCY	HERTZ
6. CW MODE STABILITY	PERCENT/HOUR	20. MAXIMUM DISCRETE FM FREQUENCY	HERTZ
7. MAXIMUM SWEEP WIDTH	HERTZ	21. MINIMUM DISCRETE FM FREQUENCY	HERTZ
8. MINIMUM SWEEP WIDTH	HERTZ	22. MAXIMUM VARIABLE MODULATION FREQUENCY	HERTZ
9. MINIMUM SWEEP TIME	SECONDS	23. MINIMUM VARIABLE MODULATION FREQUENCY	HERTZ
10. MAXIMUM SWEEP TIME	SECONDS	24. MAXIMUM SPURIOUS SIGNALS	dBc
11. MAXIMUM OUTPUT LEVEL	VOLTS	25. MAXIMUM RESIDUAL FM	HERTZ
12. MINIMUM OUTPUT LEVEL	VOLTS	26. MAXIMUM RESIDUAL AM	dBc
13. OUTPUT ATTENUATOR STEPS	NUMBER	27. OUTPUT IMPEDANCE	OHMS
14. BEST OUTPUT ATTENUATOR ACCURACY	PERCENT	28. OUTPUT FLATNESS	DECIBELS
A. CONTINUOUS FREQUENCY		K. RF BLANKING	
B. START-STOP OPERATION		L. HORIZONTAL OUTPUT	
C. INTERNAL MARKERS		M. EXTERNAL MARKER INPUT	
D. IEEE/488		N. INTERNAL BATTERY POWER	
E. CW MODE		O. 50 HZ POWER	
F. PEN LIFT		P. 60 HZ POWER	
G. INTERNAL SYNC OUTPUT		Q. 400 HZ POWER	
H. EXTERNAL SYNC INPUT		R. 115V AC	
I. EXTERNAL AM INPUT		S. 230V AC	
J. EXTERNAL FM INPUT			

NOTES:

2. A minimum frequency of dc shall be indicated by a zero.

6. The algebraic sum of allowable frequency instabilities during operation in the CW mode with:

- a. Temperature variation from 15 C to 35 C.
- b. +/- 10% line voltage change.
- c. 10 dB power output change.
- d. Time drift per hour after 1 hour warm-up.

11. The highest output amplitude required of the ETE.

12. The lowest output amplitude required of the ETE.

28. The total allowable variation of output amplitude during sweep, expressed as a ratio between minimum and maximum output levels. For example, a requirement of +/- 5 dB flatness from a reference level shall be recorded as 10 dB.

A. A generator is considered to have a continuous output frequency if it covers all frequencies between the minimum and maximum specified output frequencies. When a continuously variable frequency is required, an "X" is entered. A synthesized generator is generally not considered to have a continuous output.

B. An "X" shall be entered if individually adjustable sweep start and stop are required.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: GENERATOR, TIME MARK  
ETE GENERIC CODE: GE4

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM TIME INTERVAL	SECONDS	7. MAXIMUM TRIGGER RANGE	SECONDS
2. MAXIMUM TIME INTERVAL	SECONDS	8. MINIMUM TRIGGER AMPLITUDE	VOLTS
3. TIME INTERVAL ACCURACY	PERCENT	9. MINIMUM SINE-WAVE FREQUENCY OUT	HERTZ
4. MINIMUM MARKER LEVEL	VOLTS PEAK- PEAK	10. MAXIMUM SINE-WAVE FREQUENCY OUT	HERTZ
5. MAXIMUM MARKER LEVEL	VOLTS PEAK- PEAK	11. MAXIMUM SINE-WAVE OUTPUT LEVEL	VOLTS
6. MINIMUM TRIGGER RANGE	SECONDS	12. BEST INTERNAL FREQUENCY STABILITY	PARTS/MIL- LION/MONTH
A. EXTERNAL REFERENCE INPUT		13. OUTPUT IMPEDANCE	OHMS
B. ERROR READOUT INDICATOR		F. 60 HZ POWER	
C. IEEE/488		G. 400 HZ POWER	
D. INTERNAL BATTERY POWER		H. 115V AC	
E. 50 HZ POWER		I. 230V AC	

## NOTES:



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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: GENERATOR, TONE BURST  
ETE GENERIC CODE: GES

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM OUTPUT FREQUENCY	HERTZ	10. BEST RATED FEEDTHROUGH	DECIBELS
2. MAXIMUM OUTPUT FREQUENCY	HERTZ	11. MAXIMUM TIMING FREQUENCY	HERTZ
3. BEST FREQUENCY DIAL ACCURACY	PERCENT	12. MAXIMUM TIMING PULSE RATE	PULSES/ SECOND
4. MINIMUM SIGNAL INPUT	VOLTS PEAK- PEAK	13. MAXIMUM TIMING INPUT	VOLTS PEAK- PEAK
5. MAXIMUM SIGNAL INPUT	VOLTS PEAK- PEAK	14. TIMING INPUT IMPEDANCE	OHMS
6. INPUT IMPEDANCE	OHMS	15. CYCLE COUNT MODE POSITIONS	NUMBER
7. MAXIMUM OUTPUT LEVEL	VOLTS PEAK- PEAK	16. MINIMUM CYCLE COUNT MODE ON-OFF INTERVAL	CYCLES
8. OUTPUT IMPEDANCE	OHMS	17. MAXIMUM CYCLE COUNT MODE ON-OFF INTERVAL	CYCLES
9. BEST RATED DISTORTION	PERCENT		
A. INTERNAL GENERATOR		G. INTERNAL BATTERY POWER	
B. SYNC OUTPUT		H. 50 HZ POWER	
C. SINGLE CYCLE		I. 60 HZ POWER	
D. IEEE/488		J. 400 HZ POWER	
E. DC OFFSET		K. 115V AC	
F. DIRECT EXTERNAL CYCLE COUNT MODE		L. 230V AC	

## NOTES:

1. A minimum frequency of dc shall be indicated by a zero.
3. An "N" shall be entered if there is no requirement for ETE with an internal generator.
10. The lowest ratio of output during OFF interval to output during ON interval.
- A. An "X" shall be entered if the ETE is required to have an internally generated output signal. Some so-called tone burst generators are really gated amplifiers with no internal means of generating a signal.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: GENERATOR, TWO TONE  
ETE GENERIC CODE: GE6

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MAXIMUM OUTPUT FREQUENCY	HERTZ	6. MINIMUM SINE-WAVE OUTPUT LEVEL	VOLTS
2. MINIMUM OUTPUT FREQUENCY	HERTZ	7. OUTPUT ACCURACY	PERCENT
3. BEST RATED FREQUENCY ACCURACY	PERCENT	8. OUTPUT ATTENUATOR STEPS	NUMBER
4. BEST RATED FREQUENCY STABILITY	PARTS/ MILLION/ HOUR	9. OUTPUT IMPEDANCE	OHMS
5. MAXIMUM SINE-WAVE OUTPUT LEVEL	VOLTS	10. BEST RATED INTERMODULATION DISTORTION	PERCENT
A. CONTINUOUS FREQUENCY		11. BEST RATED HARMONIC DISTORTION	PERCENT
B. IEEE/488		12. MAXIMUM HUM	dBc
C. CONTINUOUS LEVEL ADJUST		G. INTERNAL BATTERY POWER	
D. STEP ATTENUATOR		H. 50 HZ POWER	
E. SYNC LOCK INPUT		I. 60 HZ POWER	
F. SYNC PULSE OUTPUT		J. 400 HZ POWER	
		K. 115V AC	
		L. 230V AC	

## NOTES:

2. A minimum frequency of dc shall be indicated by a zero.

A. A generator is considered to have a continuous output frequency if it covers all frequencies between the minimum and maximum specified output frequencies. When a continuously variable frequency is required, an "X" is entered. A synthesized generator is generally not considered to have a continuous output.

C. An "X" shall be entered if a continuously adjustable output level is required of the ETE. A step attenuator is not considered to be continuously adjustable.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: GENERATOR/ANALYZER, DISTORTION, ITT  
ETE GENERIC CODE: TSC

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM INTERNAL BAUD RATE	BAUDS	8. MAXIMUM PEAK BIAS DISTORTION	PERCENT
2. MAXIMUM INTERNAL BAUD RATE	BAUDS	9. DISTORTION RESOLUTION	PERCENT
3. MINIMUM EXTERNAL BAUD RATE	BAUDS	10. BEST BIAS DISTORTION ACCURACY	PERCENT
4. MAXIMUM EXTERNAL BAUD RATE	BAUDS	11. END DISTORTION	PERCENT
5. MINIMUM AVERAGE BIAS DISTORTION	PERCENT	12. MAXIMUM BIT ERROR COUNT	NUMBER
6. MAXIMUM AVERAGE BIAS DISTORTION	PERCENT	13. CODE BITS	NUMBER
7. MINIMUM PEAK BIAS DISTORTION	PERCENT	14. TEST MESSAGE CHARACTERS	NUMBER
A. EVEN PARITY		M. ITA NO-2	
B. ODD PARITY		N. US ASCII	
C. NEUTRAL		O. FIELDATA	
D. POLAR		P. ITA NO-5	
E. HIGH LEVEL		Q. EIA RS-232	
F. LOW LEVEL		R. IEEE/488	
G. SYNCHRONOUS		S. INTERNAL BATTERY POWER	
H. ASYNCHRONOUS		T. 50 HZ POWER	
I. INTERNAL LOOP SUPPLY		U. 60 HZ POWER	
J. FOX MESSAGE		V. 400 HZ POWER	
K. PROGRAMMABLE MESSAGE		W. 115V AC	
L. MORSE CODE WORD		X. 230V AC	

## NOTES:

5,6. Bias distortion is the uniform shifting of positive-going transitions from their proper position in relation to the start pulse.

12. The shifting of the ends of all marking pulses of start-stop teletypewriter signals from their proper positions relative to the beginning of the start pulse.

N. American Standard Code for Information Interchange.

S. Applies to source power, not loop supply.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: MEIER, ADMITTANCE  
ETE GENERIC CODE: BR4

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MAXIMUM INTERNAL FREQUENCY	HERTZ	12. MINIMUM INDUCTANCE	HENRYS
2. MINIMUM INTERNAL FREQUENCY	HERTZ	13. BEST INDUCTANCE ACCURACY	PERCENT
3. MAXIMUM EXTERNAL FREQUENCY	HERTZ	14. MAXIMUM CONDUCTANCE	MHOS
4. MINIMUM EXTERNAL FREQUENCY	HERTZ	15. MINIMUM CONDUCTANCE	MHOS
5. MAXIMUM RESISTANCE	OHMS	16. BEST CONDUCTANCE ACCURACY	PERCENT
6. MINIMUM RESISTANCE	OHMS	17. MAXIMUM SUSCEPTANCE	MHOS
7. BEST RESISTANCE ACCURACY	PERCENT	18. MINIMUM SUSCEPTANCE	MHOS
8. MAXIMUM CAPACITANCE	FARADS	19. BEST SUSCEPTANCE ACCURACY	PERCENT
9. MINIMUM CAPACITANCE	FARADS	20. MAXIMUM OPEN CIRCUIT VOLTS OUT	VOLTS
10. BEST CAPACITANCE ACCURACY	PERCENT	21. MAXIMUM SHORT CIRCUIT CURRENT	AMPERES
11. MAXIMUM INDUCTANCE	HENRYS		
A. TWO-TERMINAL RESISTANCE		L. COMPLEX IMPEDANCE	
B. FOUR-TERMINAL RESISTANCE		M. COMPLEX ADMITTANCE	
C. SERIES CAPACITANCE		N. MEASURES VSWR	
D. PARALLEL CAPACITANCE		O. READS ANGLE	
E. MEASURES D FACTOR		P. INTERNAL BATTERY POWER	
F. SERIES INDUCTANCE		Q. 50 HZ POWER	
G. PARALLEL INDUCTANCE		R. 60 HZ POWER	
H. MEASURES Q		S. 400 HZ POWER	
I. READS R+J FACTOR		T. 115V AC	
J. READS IMPEDANCE MAGNITUDE		U. 230V AC	
K. READS REFLECTION COEFFICIENT MAGNITUDE			

NOTES:

2,4. A minimum frequency of dc shall be indicated by a zero.

20. The maximum acceptable voltage allowed to exist between the output terminals of the ETE.

21. The maximum current required to be available at the output terminals of the ETE.

A. When the ETE is to be used to perform a two-terminal measurement of a resistor, an "X" shall be entered.

B. An "X" shall be entered if a four-terminal resistance measurement capability is required.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: METER, FREQUENCY  
ETE GENERIC CODE: FRO

PARAMETER	UNITS	PARAMETER	UNITS
1. MINIMUM FREQUENCY	HERTZ	12. MINIMUM GAIN (AUDIO AMP)	DECIBELS
2. MAXIMUM FREQUENCY	HERTZ	13. HETERODYNE OSCILLATOR MAXIMUM FREQUENCY	HERTZ
3. BEST FREQUENCY ACCURACY	PERCENT	14. HETERODYNE OSCILLATOR MINIMUM FREQUENCY	HERTZ
4. DIAL REACOUT INCREMENT	HERTZ	15. AUDIO AMPLIFIER MAXIMUM FREQUENCY	HERTZ
5. RESETTABILITY (BACKLASH)	PERCENT	16. AUDIO AMPLIFIER MINIMUM FREQUENCY	HERTZ
6. SCALE LENGTH	CENTIMETERS	17. BEST DETECTOR MIXER SENSITIVITY	WATTS
7. LOADED Q	NUMBER	18. MAXIMUM HUM LEVEL	DECIBELS
8. INSERTION LOSS	DECIBELS	19. MINIMUM DIP AT RESONANCE	DECIBELS
9. INSERTION VSWR	NUMBER	20. MAXIMUM INPUT WITHOUT DAMAGE	VOLTS
10. MINIMUM INPUT	VOLTS		
11. MAXIMUM INPUT	VOLTS		
A. ACTIVE		K. VIDEO OUTPUT	
B. PASSIVE		L. AM SIGNAL OUTPUT	
C. HETERODYNE		M. CW SIGNAL OUTPUT	
D. ABSORPTION CAVITY		N. INTERNAL BATTERY POWER	
E. METER INDICATOR		O. 50 HZ POWER	
F. CRYSTAL CALIBRATOR		P. 60 HZ POWER	
G. CONVERSION CHARTS		Q. 400 HZ POWER	
H. DIRECT READING IN FREQUENCY		R. 115V AC	
I. COAXIAL CONNECTORS		S. 230V AC	
J. WAVEGUIDE CONNECTORS			

## NOTES:

G. An "X" shall be entered if, rather than indicating directly in frequency, the ETE item uses a chart, which is supplied, to interpret the correct frequency.

H. An "X" shall be entered if the ETE is to indicate the input frequency directly in terms of frequency and not with a dial increment referenced to an interpolation chart.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: METER, GAIN/PHASE  
ETE GENERIC CODE: GPO

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM FREQUENCY	HERTZ	14. PHASE RANGE	DEGREES
2. MAXIMUM FREQUENCY	HERTZ	15. BEST PHASE ACCURACY	DEGREES
3. MINIMUM LOG A INPUT LEVEL	dBV	16. BEST PHASE RESOLUTION	DEGREES
4. MAXIMUM LOG A INPUT LEVEL	dBV	17. PHASE OFFSET	DEGREES
5. BEST LOG A AMPLITUDE ACCURACY	dBV	18. CHANNEL ISOLATION	DECIBELS
6. MINIMUM LOG B INPUT LEVEL	dBV	19. NOISE TOLERANCE ERROR	DEGREES
7. MAXIMUM LOG B INPUT LEVEL	dBV	20. MAXIMUM INPUT WITHOUT DAMAGE	VOLTS
8. BEST LOG B AMPLITUDE ACCURACY	dBV	21. WORST RESPONSE TIME	SECONDS
9. MINIMUM LOG B/A INPUT LEVEL	VOLTS RMS	22. PHASE ANALOG OUTPUT	VOLTS/DEGREE
10. MAXIMUM LOG B/A INPUT LEVEL	VOLTS RMS	23. AMPLITUDE ANALOG OUTPUT	VOLTS/ DECIBEL
11. BEST LOG B/A AMPLITUDE RESOLUTION	DECIBELS		OHMS
12. BEST AMPLITUDE RESOLUTION	DECIBELS	24. INPUT IMPEDANCE	FARADS
13. DYNAMIC RANGE	DECIBELS	25. INPUT CAPACITANCE	
A. LOG A FUNCTION		I. DIGITAL OUTPUT	
B. LOG B FUNCTION		J. INTERNAL BATTERY POWER	
C. LOG B/A FUNCTION		K. 50 HZ POWER	
D. IEEE/488		L. 60 HZ POWER	
E. DIGITAL READOUT		M. 400 HZ POWER	
F. VECTOR VOLTMETER		N. 115V AC	
G. AUTOMATIC PHASE CONTROL LOCK		O. 230V AC	
H. BCD OUTPUT			

NOTES:

1. A minimum frequency of dc shall be indicated by a zero.

13. The maximum ratio of two signals simultaneously present at the input of the ETE. The ETE shall measure to the specified accuracy.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: METER, GRID DIP  
ETE GENERIC CODE: GDO

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM FREQUENCY	HERTZ	7. MINIMUM MODULATION	PERCENT
2. MAXIMUM FREQUENCY	HERTZ	8. MAXIMUM MODULATION	PERCENT
3. BEST FREQUENCY ACCURACY	PERCENT	9. MINIMUM INPUT	VOLTS
4. MINIMUM RANGE OVERLAP	PERCENT	10. MAXIMUM INPUT	VOLTS
5. MINIMUM MODULATION FREQUENCY	HERTZ	11. MAXIMUM INPUT WITHOUT DAMAGE	VOLTS
6. MAXIMUM MODULATION FREQUENCY	HERTZ	12. MAXIMUM HUM LEVEL	PERCENT
A. ANALOG METER INDICATION		H. INTERNAL BATTERY POWER	
B. CW SIGNAL		I. 50 HZ POWER	
C. MODULATED CW SIGNAL		J. 60 HZ POWER	
D. EXTERNAL MODULATION		K. 400 HZ POWER	
E. SENSITIVITY ADJUSTMENT		L. 115V AC	
F. PLUG-IN COILS		M. 230V AC	
G. PHONE JACK			

## NOTES:

1. A minimum frequency of dc shall be indicated by a zero.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: METER, IMPEDANCE, RADIO FREQUENCY  
ETE GENERIC CODE: MZO

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM FREQUENCY	HERTZ	12. MINIMUM CAPACITANCE SCALE INCREMENT	FARADS
2. MAXIMUM FREQUENCY	HERTZ	13. BEST CAPACITANCE RESOLUTION	FARADS
3. BEST FREQUENCY ACCURACY	PERCENT	14. MINIMUM INDUCTANCE	HENRYS
4. MAXIMUM RF EXCITATION LEVEL	VOLTS	15. MAXIMUM INDUCTANCE	HENRYS
5. MINIMUM RESISTANCE	OHMS	16. BEST INDUCTANCE ACCURACY	PERCENT
6. MAXIMUM RESISTANCE	OHMS	17. MINIMUM Q	NUMBER
7. BEST RESISTANCE ACCURACY	PERCENT	18. MAXIMUM Q	NUMBER
8. MINIMUM RESISTANCE SCALE INCREMENT	PERCENT	19. MINIMUM DELTA Q	NUMBER
9. MINIMUM CAPACITANCE	FARADS	20. MAXIMUM DELTA Q	NUMBER
10. MAXIMUM CAPACITANCE	FARADS	21. BEST Q ACCURACY	PERCENT
11. BEST CAPACITANCE ACCURACY	PERCENT	22. BEST Q RESOLUTION	NUMBER
A. DIGITAL DISPLAY		F. 60 HZ POWER	
B. ANALOG DISPLAY		G. 400 HZ POWER	
C. IEEE/488		H. 115V AC	
D. INTERNAL BATTERY POWER		I. 230V AC	
E. 50 HZ POWER			

## NOTES:

1. A minimum frequency of dc shall be indicated by a zero.



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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: METER, IMPEDANCE, VECTOR  
ETE GENERIC CODE: VOZ

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM FREQUENCY	HERTZ	9. BEST PHASE ACCURACY	DEGREES
2. MAXIMUM FREQUENCY	HERTZ	10. ANGLE CALIBRATION INCREMENT	DEGREES
3. BEST FREQUENCY ACCURACY	PERCENT	11. MINIMUM CAPACITANCE	FARADS
4. MINIMUM IMPEDANCE	OHMS	12. MAXIMUM CAPACITANCE	FARADS
5. MAXIMUM IMPEDANCE	OHMS	13. BEST CAPACITANCE ACCURACY	PERCENT
6. BEST IMPEDANCE ACCURACY	PERCENT	14. MINIMUM INDUCTANCE	HENRYS
7. MINIMUM PHASE ANGLE	DEGREES	15. MAXIMUM INDUCTANCE	HENRYS
8. MAXIMUM PHASE ANGLE	DEGREES	16. BEST INDUCTANCE ACCURACY	PERCENT
A. SELF CHECK		H. INTERNAL BATTERY POWER	
B. INTERNAL PHASE METER		I. 50 HZ POWER	
C. GROUND ISOLATION		J. 60 HZ POWER	
D. FREQUENCY RECORDER OUTPUT		K. 400 HZ POWER	
E. ANGLE RECORDER OUTPUT		L. 115V AC	
F. RF MONITOR OUTPUT		M. 230V AC	
G. IMPEDANCE MAGNITUDE RECORDER OUTPUT			

## NOTES:

1. A minimum frequency of dc shall be indicated by a zero.

D,E,F,G. An "X" shall be entered if a recorder output proportional to the indicated parameter is required.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: METER, MODULATION (INCLUDES FM DEVIATION METERS)  
ETE GENERIC CODE: MDO

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MAXIMUM CARRIER FREQUENCY	HERTZ	11. MAXIMUM FM DEVIATION	HERTZ-PEAK
2. MINIMUM CARRIER FREQUENCY	HERTZ	12. BEST FM ACCURACY	PERCENT
3. MINIMUM AM FREQUENCY	HERTZ	13. MINIMUM INPUT LEVEL	VOLTS
4. MAXIMUM AM FREQUENCY	HERTZ	14. MAXIMUM INPUT LEVEL	VOLTS
5. MINIMUM AM	PERCENT	15. MAXIMUM DC INPUT WITHOUT DAMAGE	VOLTS
6. MAXIMUM AM	PERCENT	16. MAXIMUM FM NOISE	dBc
7. BEST AM ACCURACY	PERCENT	17. MAXIMUM AF DISTORTION	PERCENT OF INPUT
8. MINIMUM FM FREQUENCY	HERTZ	18. INPUT IMPEDANCE	OHMS
9. MAXIMUM FM FREQUENCY	HERTZ		
10. MINIMUM FM DEVIATION	HERTZ-PEAK		
A. CONTINUOUS FREQUENCY		F. 50 HZ POWER	
B. AF OUTPUT		G. 60 HZ POWER	
C. IF OUTPUT		H. 400 HZ POWER	
D. IEEE/488		I. 115V AC	
E. INTERNAL BATTERY POWER		J. 230V AC	

NOTES:

A. A generator is considered to have a continuous output frequency if it covers all frequencies between the minimum and maximum specified output frequencies. When a continuously variable frequency is required, an "X" is entered. A synthesized generator is generally not considered to have a continuous output.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: METER, NOISE FIGURE  
ETE GENERIC CODE: NFO

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. RF MINIMUM FREQUENCY	HERTZ	12. 4TH IF FREQUENCY	HERTZ
2. RF MAXIMUM FREQUENCY	HERTZ	13. 5TH IF FREQUENCY	HERTZ
3. RF SOURCE IMPEDANCE	OHMS	14. MAXIMUM NOISE FIGURE MEASUREMENT	DECIBELS
4. MAXIMUM INPUT LEVEL	dBm	RANGE	
5. MINIMUM INPUT LEVEL	dBm	15. MINIMUM NOISE FIGURE MEASUREMENT	DECIBELS
6. MINIMUM VIDEO INPUT	VOLTS	RANGE	
7. MAXIMUM VIDEO INPUT	VOLTS	16. MAXIMUM SOURCE EXCESS NOISE	DECIBELS
8. AGC RANGE	DECIBELS	17. BEST METER ACCURACY	HERTZ
9. 1ST IF FREQUENCY	HERTZ	18. MINIMUM BANDWIDTH	HERTZ
10. 2ND IF FREQUENCY	HERTZ	19. IF INPUT IMPEDANCE	OHMS
11. 3RD IF FREQUENCY	HERTZ	20. OUTPUT IMPEDANCE	OHMS
A. DIGITAL READOUT		F. 50 HZ POWER	
B. ANALOG READOUT		G. 60 HZ POWER	
C. RECORDER OUTPUT		H. 400 HZ POWER	
D. RECORDER CALIBRATION OUTPUT		I. 115V AC	
E. INTERNAL BATTERY POWER		J. 230V AC	

## NOTES:

14. The maximum noise figure meter indication required.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: METER, PHASE JITTER  
ETE GENERIC CODE: PJM

PARAMETER	UNITS	PARAMETER	UNITS
1. MINIMUM INPUT FREQUENCY	HERTZ	14. MAXIMUM LEVEL METER INDICATION	dBm
2. MAXIMUM INPUT FREQUENCY	HERTZ	15. LEVEL METER ACCURACY	DECIBELS
3. MINIMUM INPUT LEVEL	dBm	16. PHASE HIT MINIMUM	DEGREES
4. MAXIMUM INPUT LEVEL	dBm	17. PHASE HIT MAXIMUM	DEGREES
5. OUTPUT FREQUENCY	HERTZ	18. PHASE HIT ACCURACY	PERCENT
6. OUTPUT FREQUENCY ACCURACY	HERTZ	19. PHASE HIT STEPS	DEGREES
7. MINIMUM OUTPUT LEVEL	dBm	20. AMPLITUDE HIT MINIMUM	DECIBELS
8. MAXIMUM OUTPUT LEVEL	dBm	21. AMPLITUDE HIT MAXIMUM	DECIBELS
9. OUTPUT LEVEL ACCURACY	+/-DECIBELS	22. AMPLITUDE HIT ACCURACY	PERCENT
10. PHASE JITTER METER FULL SCALE MINIMUM	DEGREES	23. COINCIDENT HIT	SECONDS
11. PHASE JITTER METER FULL SCALE MAXIMUM	DEGREES	24. LINE DROPOUT	-DECIBELS
12. PHASE JITTER METER ACCURACY	DEGREES	25. MAXIMUM TIMER SETTING	SECONDS
13. MINIMUM LEVEL METER INDICATION	dBm		
A. 135 OHM INPUT IMPEDANCE		O. DROPOUT TOTALIZER	
B. 600 OHM INPUT IMPEDANCE		P. HIT DELAY	
C. 900 OHM INPUT IMPEDANCE		Q. CARRIER OUTPUT	
D. BRIDGE INPUT IMPEDANCE		R. TOTALIZER OUTPUT	
E. 135 OHM INPUT LINE HOLD		S. PHASE JITTER OUTPUT	
F. 600 OHM INPUT LINE HOLD		T. BELL WEIGHTING FILTER	
G. 900 OHM INPUT LINE HOLD		U. BELL & LOW FREQUENCY WEIGHTING FILTER	
H. 600 OHM OUTPUT IMPEDANCE		V. IEEE/488	
I. BALANCED OUTPUT IMPEDANCE		W. INTERNAL BATTERY POWER	
J. NOISE FREE TONE		X. 50 HZ POWER	
K. CAUTION LAMP		Y. 60 HZ POWER	
L. PHASE HIT TOTALIZER		Z. 400 HZ POWER	
M. AMPLITUDE HIT TOTALIZER		AA. 115V AC	
N. COINCIDENT HIT TOTALIZER		BB. 230V AC	

NOTES:

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: MODULATOR  
ETE GENERIC CODE: MLO

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MAXIMUM RF FREQUENCY	HERTZ	11. MAXIMUM INTERNAL PULSE WIDTH	SECONDS
2. MINIMUM RF FREQUENCY	HERTZ	12. MAXIMUM EXTERNAL PULSE PRF	HERTZ
3. MAXIMUM DYNAMIC RANGE	DECIBELS	13. EXTERNAL AM SENSITIVITY	DECIBELS/ VOLT
4. MINIMUM EXTERNAL AM FREQUENCY	HERTZ	14. TRIGGER OUT AMPLITUDE	VOLTS
5. MAXIMUM EXTERNAL AM FREQUENCY	HERTZ	15. MINIMUM EXTERNAL SYNC AMPLITUDE	VOLTS
6. MINIMUM INTERNAL SQUARE-WAVE FREQUENCY	HERTZ	16. MAXIMUM EXTERNAL SYNC AMPLITUDE	VOLTS
7. MAXIMUM INTERNAL SQUARE-WAVE FREQUENCY	HERTZ	17. MAXIMUM INPUT WITHOUT DAMAGE	WATTS
8. MINIMUM INTERNAL PULSE FREQUENCY	HERTZ	18. MAXIMUM INSERTION LOSS	DECIBELS
9. MAXIMUM INTERNAL PULSE FREQUENCY	HERTZ		
10. MINIMUM INTERNAL PULSE WIDTH	SECONDS		
A. INTERNAL BATTERY POWER		D. 400 HZ POWER	
B. 50 HZ POWER		E. 115V AC	
C. 60 HZ POWER		F. 230V AC	

## NOTES:

1. A minimum frequency of dc shall be indicated by a zero.
3. The total usable range of the model.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: MULTIMETER, ANALOG, ELECTRONIC (INCLUDES VTVM OR TRANSISTORIZED)  
ETE GENERIC CODE: MU1

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MAXIMUM DC VOLTS	VOLTS	15. MINIMUM DC CURRENT	AMPERES
2. MINIMUM DC VOLTS	VOLTS	16. BEST DC ACCURACY	PERCENT
3. BEST DC VOLTS ACCURACY	PERCENT	17. MAXIMUM AC CURRENT	AMPERES
4. INPUT RESISTANCE	OHMS	18. MINIMUM AC CURRENT	AMPERES
5. DC SENSITIVITY	OHMS/VOLT	19. BEST AC ACCURACY	PERCENT
6. MAXIMUM AC VOLTS	VOLTS	20. MAXIMUM RESISTANCE	OHMS
7. MINIMUM AC VOLTS	VOLTS	21. MINIMUM RESISTANCE	OHMS
8. BEST AC VOLTS ACCURACY	PERCENT	22. BEST RESISTANCE ACCURACY	PERCENT
9. INPUT CAPACITANCE	FARADS	23. BEST RESISTANCE ACCURACY	DEGREE OF
10. AC SENSITIVITY	OHMS/VOLT		ARC
11. MAXIMUM FREQUENCY	HERTZ	24. OHMMETER OPEN CIRCUIT OUTPUT	VOLTS
12. MINIMUM FREQUENCY	HERTZ	25. MAXIMUM CURRENT MEASUREMENT METER	AMPERES
13. BEST CREST FACTOR	NUMBER	NOISE	
14. MAXIMUM DC CURRENT	AMPERES	26. MAXIMUM DC INPUT WITHOUT DAMAGE	VOLTS
A. FIXED INPUT RESISTANCE		G. INTERNAL BATTERY POWER	
B. NUMBER OF DIGITS	NUMBER	H. 50 HZ POWER	
C. ANALOG METER		I. 60 HZ POWER	
D. DIGITAL METER WITH ANALOG INDICATOR		J. 400 HZ POWER	
E. dB RANGE		K. 115V AC	
F. CLAMP-ON AMMETER		L. 230V AC	

NOTES:

10,A. An "X" shall be entered if a fixed ac input resistance is required of the ETE and the value of resistance entered in line 10.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

EIE NOUN NAME: MULTIMETER, ANALOG, VOLTOHMMETER  
EIE GENERIC CODE: MUO

PARAMETER	UNITS	PARAMETER	UNITS
1. MAXIMUM DC VOLTS	VOLTS	15. BEST DC CURRENT ACCURACY	PERCENT OF FULL SCALE
2. MINIMUM DC VOLTS	VOLTS	16. MAXIMUM AC CURRENT	AMPERES
3. BEST DC VOLTS ACCURACY	PERCENT OF FULL SCALE	17. MINIMUM AC CURRENT	AMPERES
4. DC INPUT RESISTANCE	OHMS	18. BEST AC CURRENT ACCURACY	PERCENT OF FULL SCALE
5. DC SENSITIVITY	OHMS/VOLT	19. MAXIMUM RESISTANCE	OHMS
6. MAXIMUM AC VOLTS	VOLTS	20. MINIMUM RESISTANCE	OHMS
7. MINIMUM AC VOLTS	VOLTS	21. BEST RESISTANCE ACCURACY	PERCENT
8. BEST AC VOLTS ACCURACY	PERCENT OF FULL SCALE	22. BEST RESISTANCE ACCURACY	DEGREE OF ARC
9. AC INPUT CAPACITANCE	FARADS	23. OHMMETER OPEN CIRCUIT OUTPUT	VOLTS
10. AC SENSITIVITY	OHMS/VOLT	24. MAXIMUM SHORT CIRCUIT CURRENT	AMPERES
11. MAXIMUM FREQUENCY	HERTZ	25. MAXIMUM FLOATING DC INPUT	VOLTS
12. MINIMUM FREQUENCY	HERTZ	26. FULL-SCALE METER SENSITIVITY	AMPERES
13. MAXIMUM DC CURRENT	AMPERES		
14. MINIMUM DC CURRENT	AMPERES		
A. FIXED AC INPUT RESISTANCE		J. dB RANGE	
B. 1 MEGOHM AC INPUT RESISTANCE		K. CLAMP-ON AMMETER	
C. 2 MEGOHM AC INPUT RESISTANCE		L. OVERLOAD PROTECTION	
D. 10 MEGOHM AC INPUT RESISTANCE		M. INTERNAL BATTERY POWER	
E. 11 MEGOHM AC INPUT RESISTANCE		N. 50 HZ POWER	
F. 15 MEGOHM AC INPUT RESISTANCE		O. 60 HZ POWER	
G. NUMBER OF DIGITS		P. 400 HZ POWER	
H. ANALOG METER		Q. 115V AC	
I. DIGITAL METER WITH ANALOG INDICATOR		R. 230V AC	

## NOTES:

9,A,B,C,D,E,F. If the ac meter input impedance requirement is specified in ohms per volt, as in passive meters, the ohms per volt value shall be entered in item 10 in ohms. If the ac input impedance of the meter is required to be fixed, an "X" shall be recorded in A, and the input capacitance shall be entered in 9. The appropriate ac input resistance (B,C,D,E,F) shall be marked "X".

G. The number of digits required in the meter readout for digital meters.

I. If the multimeter is required to have an analog indicator in addition to the digital readout, an "X" shall be entered.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: MULTIMETER, DIGITAL (INCLUDES PEAK, PEAK TO PEAK, AVERAGE, AND RMS)  
ETE GENERIC CODE: MU2

PARAMETER	UNITS	PARAMETER	UNITS
1. MAXIMUM DC VOLTS	VOLTS	16. BEST DC CURRENT ACCURACY	PERCENT
2. MINIMUM DC VOLTS	VOLTS	17. MAXIMUM AC CURRENT	AMPERES
3. BEST DC VOLTS ACCURACY	PERCENT	18. MINIMUM AC CURRENT	AMPERES
4. INPUT RESISTANCE	OHMS	19. BEST AC CURRENT ACCURACY	PERCENT
5. DC SENSITIVITY	OHMS/VOLT	20. MAXIMUM RESISTANCE	OHMS
6. MAXIMUM AC VOLTS	VOLTS	21. MINIMUM RESISTANCE	OHMS
7. MINIMUM AC VOLTS	VOLTS	22. BEST RESISTANCE ACCURACY	PERCENT
8. BEST AC VOLTS ACCURACY	PERCENT	23. RESISTANCE RANGE MAXIMUM DC INPUT WITHOUT DAMAGE	VOLTS
9. INPUT CAPACITANCE	FARADS	24. RESISTANCE DC INPUT PROTECTION	VOLTS
10. AC SENSITIVITY	OHMS/VOLT	25. OHMMETER OPEN CIRCUIT OUTPUT	VOLTS
11. AC VOLTAGE INPUT PROTECTION	VOLTS/HERTZ	26. COMMON MODE REJECTION	DECIBELS
12. MAXIMUM FREQUENCY	HERTZ	27. NORMAL MODE REJECTION	DECIBELS
13. MINIMUM FREQUENCY	HERTZ	28. MAXIMUM OVERRANGE	PERCENT
14. MAXIMUM DC CURRENT	AMPERES		
15. MINIMUM DC CURRENT	AMPERES		
A. FIXED INPUT RESISTANCE		O. DIODE TEST	
B. NUMBER OF DIGITS	NUMBER	P. INTERNAL BATTERY TEST	
C. ANALOG METER		Q. CLAMP-ON AMMETER	
D. DIGITAL METER WITH ANALOG INDICATOR		R. PEAK INDICATING	
E. LCD DISPLAY		S. PEAK TO PEAK INDICATING	
F. LED DISPLAY		T. AVERAGE INDICATING	
G. AUTOMATIC POLARITY INDICATION		U. RMS INDICATING	
H. AUTOMATIC ZEROING		V. IEEE/488	
I. AUTOMATIC DECIMAL RANGING		W. INTERNAL BATTERY POWER	
J. EXCESS INPUT INDICATION		X. 50 HZ POWER	
K. CURRENT INPUT PROTECTION		Y. 60 HZ POWER	
L. RF PROBE		Z. 400 HZ POWER	
M. RF PROBE VOLTAGE DIVIDER		AA. 115V AC	
N. DC HIGH-VOLTAGE PROBE		BB. 230V AC	

## NOTES:

10,A. A fixed ac input resistance requirement shall be indicated by an "X" in item A and the value listed in 10.

B. The number of digits required in the meter readout for digital meters.

D. If the multimeter is required to have an analog indicator in addition to the digital readout, an "X" shall be entered.



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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: MULTIPLIER, FREQUENCY, DOUBLER  
ETE GENERIC CODE: D00

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM FREQUENCY OUT	HERTZ	7. BEST OUTPUT REFLECTION COEFFICIENT	NUMBER
2. MAXIMUM FREQUENCY OUT	HERTZ	8. BEST SENSITIVITY	WATTS
3. CONVERSION LOSS WITH 0.01 WATT INPUT	DECIBELS	9. MAXIMUM INPUT POWER	WATTS
4. MAXIMUM OUTPUT	WATTS	10. INPUT FLANGE (WR- )	NUMBER
5. MAXIMUM ATTENUATION	DECIBELS	11. OUTPUT FLANGE (WR- )	NUMBER
6. ATTENUATOR ACCURACY	PERCENT	12. HARMONIC SUPPRESSION	DECIBELS
A. LEVEL METER		E. 60 HZ POWER	
B. OUTPUT POWER METER		F. 400 HZ POWER	
C. INTERNAL BATTERY POWER		G. 115V AC	
D. 50 HZ POWER		H. 230V AC	

## NOTES:

5. The maximum attenuation value of the internal attenuator.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: OHMMETER, MEGA  
ETE GENERIC CODE: OHQ

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MAXIMUM RESISTANCE	OHMS	7. MINIMUM TEST VOLTAGE	VOLTS
2. MINIMUM RESISTANCE	OHMS	8. BEST TEST VOLTAGE ACCURACY	PERCENT
3. BEST RESISTANCE ACCURACY	PERCENT	9. TEST VOLTAGE RANGES	NUMBER
4. RESOLUTION	OHMS	10. MEAN MEASURING FREQUENCY	HERTZ
5. RESISTANCE RANGES	NUMBER	11. MAXIMUM SHORT-CIRCUIT CURRENT	AMPERES
6. MAXIMUM TEST VOLTAGE	VOLTS		
A. METER PROTECTION		G. ANALOG OUTPUT	
B. TWO-TERMINAL MEASUREMENTS: GROUNDED		H. INTERNAL BATTERY POWER	
C. TWO-TERMINAL MEASUREMENTS: UNGROUNDED		I. 50 HZ POWER	
D. THREE-TERMINAL MEASUREMENTS: GROUNDED		J. 60 HZ POWER	
E. THREE-TERMINAL MEASUREMENTS: UNGROUNDED		K. 400 HZ POWER	
F. VARIABLE RESISTANCE PERCENTAGE MEASUREMENT		L. 115V AC	
		M. 230V AC	

NOTES:

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## WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: OSCILLOSCOPE  
ETE GENERIC CODE: OSO

PARAMETER	UNITS	PARAMETER	UNITS
1. VERTICAL HI-FREQUENCY RESPONSE -3 dB	HERTZ	18. MAXIMUM HORIZONTAL DELAY TIME	SECONDS
2. VERTICAL LO-FREQUENCY RESPONSE -3 dB	HERTZ	19. BEST HORIZONTAL DELAY TIME ACCURACY	PERCENT
3. MAXIMUM VERTICAL SENSITIVITY	VOLTS/ DIVISION	20. MAXIMUM DELAY SWEEP JITTER	PERCENT
4. MINIMUM VERTICAL SENSITIVITY	VOLTS/ DIVISION	21. MINIMUM TRIGGER VIEWING SENSITIVITY	VOLTS/ DIVISION
5. VERTICAL DEFLECTION ACCURACY	PERCENT	22. MAXIMUM TRIGGER VIEWING SENSITIVITY	VOLTS/ DIVISION
6. MAXIMUM VERTICAL INPUT WITHOUT DAMAGE	VOLTS DC	23. INTERNAL TRIGGER SENSITIVITY	CENTIMETERS PEAK-PEAK
7. MINIMUM CHANNEL SEPARATION RATIO	DECIBELS	24. EXTERNAL TRIGGER SENSITIVITY	VOLTS PEAK- PEAK
8. MINIMUM CMR RATIO	NUMBER	25. MAXIMUM EXTERNAL TRIGGER INPUT	VOLTS PEAK- PEAK
9. RISE TIME	SECONDS	26. MAXIMUM TRACE ROTATION	DEGREES
10. MAXIMUM VERTICAL DEFLECTION	DIVISIONS	27. X-Y DISPLAY X-AXIS BANDWIDTH	HERTZ
11. MAXIMUM UNCALIBRATED VERTICAL DEFLECTION	VOLTS/ DIVISION	28. X-Y DISPLAY Y-AXIS BANDWIDTH	HERTZ
12. BANDWIDTH LIMITING -3 dB	HERTZ	29. X-Y PHASE DIFFERENCE	DEGREES
13. MAXIMUM HORIZONTAL SWEEP	SECONDS/ DIVISION	30. STORAGE WRITING RATE	CENTIMETERS/ SECOND
14. MINIMUM HORIZONTAL SWEEP	SECONDS/ DIVISION	31. INPUT RESISTANCE	OHMS
15. HORIZONTAL DEFLECTION ACCURACY	PERCENT	32. INPUT CAPACITANCE	FARADS
16. MAXIMUM HORIZONTAL DEFLECTION	DIVISIONS		
17. MAXIMUM UNCALIBRATED HORIZONTAL SWEEP	SECONDS/ DIVISION		
A. MULTIBEAM CRT		S. Z AXIS INPUT	
B. NUMBER OF TRACES	NUMBER	T. AMPLITUDE CALIBRATOR	
C. CALIBRATED MIXED SWEEP		U. PORTABLE	
D. VERTICAL MAGNIFICATION		V. EXTERNAL TRIGGER	
E. VERTICAL DELAY		W. AUTO TRIGGER	
F. ALTERNATE MODE		X. BEAM FINDER	
G. CHOPPED MODE		Y. INTERNAL GRATICULE	
H. ALGEBRAIC MODE		Z. CAMERA MOUNT CAPABILITY	
I. 3RD CHANNEL TRIGGER VIEW		AA. STORAGE CAPABILITY	
J. DIGITAL READOUT		BB. VARIABLE PERSISTENCE	
K. HORIZONTAL MAGNIFICATION		CC. VERTICAL OUTPUT	
L. AUTOMATIC SCALE FACTOR READOUT		DD. IEEE/488	
M. UNGROUNDED INPUT		EE. INTERNAL BATTERY POWER	
N. DIFFERENTIAL INPUT		FF. 50 HZ POWER	
O. SINGLE SWEEP		GG. 60 HZ POWER	
P. DELAYED SWEEP		HH. 400 HZ POWER	
Q. HORIZONTAL AMPLIFIER		II. 115V AC	
R. X-Y OPERATION		JJ. 230V AC	

## NOTES:

2. A minimum frequency of dc shall be indicated by a zero.
3. The most sensitive calibrated position required of the ETE vertical input.
4. The least sensitive calibrated position required of the ETE vertical input.
- 13,14,15,16,17. Refers to the main sweep requirements only, not to delayed sweep.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

EIE NOUN NAME: OSCILLOSCOPE  
EIE GENERIC CODE: OSO

NOTES:

B. The number of input signals to be displayed simultaneously shall be entered.

CC. An "X" shall be entered if a vertical signal output is required of the ETE.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: OSCILLOSCOPE, SAMPLING  
ETE GENERIC CODE: OS1

PARAMETER	UNITS	PARAMETER	UNITS
1. VERTICAL HI-FREQUENCY RESPONSE	HERTZ	13. BEST HORIZONTAL DEFLECTION ACCURACY	PERCENT
2. VERTICAL LO-FREQUENCY RESPONSE	HERTZ	14. MAXIMUM EXPANDED HORIZONTAL SWEEP SPEED	SECONDS/ DIVISION
3. MAXIMUM VERTICAL SENSITIVITY	VOLTS/ DIVISION	15. BEST EXPANDED HORIZONTAL DEFLECTION ACCURACY	PERCENT
4. MINIMUM VERTICAL SENSITIVITY	VOLTS/ DIVISION	16. MAXIMUM HORIZONTAL DELAY TIME	SECONDS
5. BEST VERTICAL DEFLECTION ACCURACY	PERCENT	17. BEST HORIZONTAL DELAY TIME ACCURACY	PERCENT
6. VERTICAL INPUT IMPEDANCE	OHMS	18. HORIZONTAL INPUT IMPEDANCE	OHMS
7. BEST VERTICAL INPUT VSWR	NUMBER	19. MAXIMUM STORAGE SPEED	CENTIMETERS/ SECOND
8. ISOLATION BETWEEN CHANNELS	DECIBELS	20. MINIMUM RISE TIME	SECONDS
9. DYNAMIC RANGE	VOLTS	21. MAXIMUM TRANSIENT RESPONSE ABERRATIONS PEAK-PEAK	PERCENT
10. MAXIMUM TIME DIFFERENCE BETWEEN CHANNELS	SECONDS	22. MAXIMUM VERTICAL DEFLECTION	DIVISIONS
11. MAXIMUM HORIZONTAL SWEEP SPEED	SECONDS/ DIVISION	23. MAXIMUM HORIZONTAL DEFLECTION	DIVISIONS
12. MINIMUM HORIZONTAL SWEEP SPEED	SECONDS/ DIVISION		
A. MULTIBEAM CRT		M. SIGNAL AVERAGING	
B. NUMBER OF TRACES	NUMBER	N. VERTICAL MAGNIFIER	
C. RANDOM SAMPLING		O. HORIZONTAL MAGNIFIER	
D. STORAGE CAPABILITY		P. VERTICAL OUTPUT	
E. VARIABLE PERSISTENCE		Q. HORIZONTAL OUTPUT	
F. PORTABLE		R. INTERNAL BATTERY POWER	
G. UNGROUNDED INPUT		S. 50 HZ POWER	
H. DIFFERENTIAL INPUT		T. 60 HZ POWER	
I. SINGLE SWEEP		U. 400 HZ POWER	
J. DELAYED SWEEP		V. 115V AC	
K. VERTICAL DC OFFSET		W. 230V AC	
L. VERTICAL ADD MODE			

## NOTES:

2. A minimum frequency of dc shall be indicated by a zero.

3. The most sensitive calibrated range required of the vertical input of the ETE.

4. The least sensitive calibrated range required of the vertical input of the ETE.

13. Refers to main sweep only, not to delayed sweep.

B. The number of input signals to be simultaneously viewed on the ETE shall be entered. Multiple display of a single input signal shall be counted as one trace. An example is alternate display by delay sweep and delaying sweep.

F. An "X" shall be entered if portability is required.

P. An "X" shall be entered if a vertical signal output is required of the ETE.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: RECORDER, STRIP CHART, MULTIPLE CHANNEL  
ETE GENERIC CODE: RDO

PARAMETER	UNITS	PARAMETER	UNITS
1. MINIMUM FREQUENCY	HERTZ	12. INPUT IMPEDANCE	OHMS
2. MAXIMUM FREQUENCY	HERTZ	13. COMMON MODE VOLTAGE	VOLTS
3. WORST CASE FREQUENCY RESPONSE	DECIBELS	14. COMMON MODE REJECTION	DECIBELS
4. MINIMUM INPUT LEVEL	VOLTS/ CENTIMETER	15. MAXIMUM CHART SPEED	CENTIMETERS/ SECOND
5. MAXIMUM INPUT LEVEL	VOLTS/ CENTIMETER	16. MINIMUM CHART SPEED	CENTIMETERS/ SECOND
6. BEST VOLTAGE ACCURACY	PERCENT	17. CHART SPEED ACCURACY	PERCENT
7. INPUT RANGES	NUMBER	18. CHART WIDTH	CENTIMETERS
8. MAXIMUM OVERSHOOT	PERCENT	19. CHART CAPACITY	METERS
9. MAXIMUM DEADBAND	PERCENT	20. MAXIMUM ZERO DRIFT	PERCENT/HOUR
10. BEST NONLINEARITY	PERCENT	21. ZERO SUPPRESSION ACCURACY	PERCENT
11. MAXIMUM INPUT WITHOUT DAMAGE	VOLTS	22. RESETTABILITY	PERCENT
A. INK TYPE		J. ZERO SUPPRESSION	
B. THERMAL TYPE		K. TWO-CHANNEL INPUT	
C. LIGHT BEAM TYPE		L. INTERNAL BATTERY POWER	
D. PRESSURE TYPE		M. 50 HZ POWER	
E. ELECTROCHEMICAL		N. 60 HZ POWER	
F. PEN LIFT		O. 400 HZ POWER	
G. TIME MARKERS		P. 115V AC	
H. EVENT MARKER		Q. 230V AC	
I. ZERO VERNIER			

## NOTES:

1. A minimum frequency of dc shall be indicated by a zero.

8. The permitted amplitude of the first maximum excursion beyond the 100% amplitude level expressed as a percentage of this 100% amplitude.

9. The smallest percentage of change in the input signal that the ETE is required to indicate.

11. The allowed percentage of deviation by which the input-output (pen deflection) relationship can fail to be a straight line.

13. The maximum voltage that can be applied to both input lines of the amplifier.

15. The fastest chart speed required.

16. The slowest chart speed required.

A,B,C,D,E. An "X" shall indicate the type of pen/ink system required. "Pressure Type" refers to a pen that marks the chart paper by striking it under pressure, not to a pressurized ink system.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: RECORDER, X-Y  
ETE GENERIC CODE: RXO

PARAMETER	UNITS	PARAMETER	UNITS
1. MINIMUM INPUT VOLTS	VOLTS/INCH	14. MAXIMUM X-AXIS ACCELERATION	CENTIMETERS/ SECOND/ SECOND
2. MAXIMUM INPUT VOLTS	VOLTS/INCH	15. MAXIMUM Y-AXIS ACCELERATION	CENTIMETERS/ SECOND/ SECOND
3. BEST VOLTAGE ACCURACY	PERCENT	16. REFERENCE STABILITY	PERCENT/ DEGREE
4. BEST NONLINEARITY	PERCENT	17. MAXIMUM OVERSHOOT	CENTIGRADE
5. INPUT IMPEDANCE	OHMS	18. X-AXIS GRID SIZE	PERCENT
6. MAXIMUM ZERO DRIFT	PERCENT/HOUR	19. Y-AXIS GRID SIZE	CENTIMETERS
7. RESETTABILITY	PERCENT	20. LINEARITY	CENTIMETERS PERCENT OF FULL SCALE
8. COMMON MODE REJECTION	DECIBELS		
9. MAXIMUM INPUT WITHOUT DAMAGE	VOLTS		
10. MAXIMUM TIME BASE RATE	SECONDS/ CENTIMETER		
11. MINIMUM TIME BASE RATE	SECONDS/ CENTIMETER		
12. TIME BASE ACCURACY	PERCENT		
13. MAXIMUM SLEWING SPEED	CENTIMETERS/ SECOND		
A. TYPE OF PENS		L. SERVO MOTOR PROTECTION	
B. ELECTROSTATIC PAPER HOLD		M. LINE FILTER	
C. VACUUM PAPER HOLD		N. NULL DETECTOR	
D. MECHANICAL PAPER HOLD		O. IEEE/488	
E. REMOTE PEN LIFT		P. INTERNAL BATTERY POWER	
F. PLUG-IN AMPLIFIERS		Q. 50 HZ POWER	
G. EVENT MARKER		R. 60 HZ POWER	
H. ZERO SUPPRESSION		S. 400 HZ POWER	
I. ZERO ADJUST		T. 115V AC	
J. NUMBER OF DC AMPLIFIERS	NUMBER	U. 230V AC	
K. INPUT RANGE VERNIER			

## NOTES:

1. The most sensitive setting required of the input range switch.
2. The least sensitive setting required of the input range switch.
3. The allowed percentage of deviation by which the input-output (pen deflection) relationship can fail to be a straight line.
4. A measure of how well the ETE can ignore a signal appearing simultaneously and in phase at both input terminals of the ETE.
10. The slowest sweep speed required.
11. The fastest sweep speed required.
13. The maximum speed at which the ETE pen shall be required to move along the X or Y axis.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: RECORDER, X-Y  
ETE GENERIC CODE: RX0

NOTES:

14. The peak pen acceleration required when the pen is responding to a step input.

17. The permitted amplitude of the first maximum excursion beyond the 100% amplitude level expressed as a percentage of this 100% amplitude.

A. The following code shall be used to indicate the type of pen system required:

I: ink  
T: thermal  
P: pressure  
E: electrochemical

F. An "X" shall be entered if plug-in amplifiers are required.

J. This space shall indicate the number of wired-in dc amplifiers or the number of plug-in spaces required for accepting amplifiers. If plug-ins are required, an "X" shall be entered in item F.



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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: REFLECTOMETER, TIME DOMAIN  
ETE GENERIC CODE: TDR

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM VERTICAL SCALE	MILLIRHO/ DIVISION	7. MAXIMUM START DELAY	METERS
2. MAXIMUM VERTICAL SCALE	MILLIRHO/ DIVISION	8. SYSTEM REFLECTION RISE TIME	SECONDS
3. VERTICAL ACCURACY	PERCENT	9. PEAK ABERRATION IN NORMAL OPERATION	PERCENT
4. MINIMUM HORIZONTAL RANGE	METERS/ DIVISION	10. REPETITION RATE	HERTZ
5. MAXIMUM HORIZONTAL RANGE	METERS/ DIVISION	11. PULSE AMPLITUDE	VOLTS
6. DISTANCE ACCURACY	PERCENT	12. PULSE JITTER	METERS
A. SOLID POLY CABLE DIELECTRIC SCALE		13. PEAK ABERRATIONS IN LO-NOISE OPERATION	PERCENT
B. SOLID PTFE CABLE DIELECTRIC SCALE		14. MAXIMUM NOISE IN NORMAL OPERATION	MILLIRHOS
C. VARIABLE DIELECTRIC CONSTANT SCALE		15. MAXIMUM NOISE IN LO-NOISE OPERATION	MILLIRHOS
D. NOISE FILTER		J. HORIZONTAL REFERENCE ZERO	
E. METRIC SCALE CALIBRATION		K. VERTICAL REFERENCE ZERO	
F. STORAGE		L. INTERNAL BATTERY POWER	
G. 50 OHM IMPEDANCE		M. 50 HZ POWER	
H. BUILT-IN RECORDER		N. 60 HZ POWER	
I. RECORDER OUTPUT		O. 400 HZ POWER	
		P. 115V AC	
		Q. 230V AC	

## NOTES:

- A. An "X" shall indicate a requirement for a solid polyethylene (poly) cable dielectric scale.
- B. An "X" shall indicate a requirement for a solid polytetrafluoroethylene (PTFE) cable dielectric scale.
- C. An "X" shall indicate a requirement for a variable dielectric constant scale.
- E. An "X" shall indicate a requirement for metric measurement scales.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: SIMULATOR, SYNCHRO/RESOLVER  
ETE GENERIC CODE: GES

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MAXIMUM FREQUENCY	HERTZ	7. SYNCHRO ANGLE GENERATOR	ARC-SECONDS
2. MINIMUM FREQUENCY	HERTZ	ACCURACY: 10 KHZ	
3. MAXIMUM ANGLE RANGE	DEGREES	8. RESOLVER ANGLE GENERATOR	ARC-SECONDS
4. ANGULAR RESOLUTION	DEGREES	ACCURACY: 60 HZ	
5. SYNCHRO ANGLE GENERATOR	ARC-SECONDS	9. RESOLVER ANGLE GENERATOR	ARC-SECONDS
ACCURACY: 60 HZ		ACCURACY: 400 HZ	
6. SYNCHRO ANGLE GENERATOR	ARC-SECONDS	10. RESOLVER ANGLE GENERATOR	ARC-SECONDS
ACCURACY: 400 HZ		ACCURACY: 10 KHZ	
A. 60 HZ REFERENCE FREQUENCY		I. 26V OUT LINE-TO-LINE	
B. 400 HZ REFERENCE FREQUENCY		J. 90V OUT LINE-TO-LINE	
C. 1 KHZ REFERENCE FREQUENCY		K. 115V OUT LINE-TO-LINE	
D. 10 KHZ REFERENCE FREQUENCY		L. THREE-WIRE SYNCHRO	
E. 1:1 VOLTAGE TAP		M. FOUR-WIRE RESOLVER	
F. 26V REFERENCE EXCITATION		N. IN-LINE DISPLAY	
G. 115V REFERENCE EXCITATION		O. NUMBER OF DEGREE DIALS	NUMBER
H. 11.8V OUT LINE-TO-LINE			

NOTES:

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: SLOTTED LINE  
ETE GENERIC CODE: SLO

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM FREQUENCY	HERTZ	6. WAVEGUIDE CONNECTOR	EIA WAVE- GUIDE NUMBER
2. MAXIMUM FREQUENCY	HERTZ		
3. RESIDUAL VSWR	NUMBER	7. LINE IMPEDANCE	OHMS
4. PROBE TRAVEL LENGTH	CENTIMETERS		
5. SLOPE	DECIBELS		
A. INTERNAL CRYSTAL DETECTOR		D. APC-7 CONNECTORS	
B. COAXIAL CONNECTORS		E. WAVEGUIDE CONNECTORS	
C. TYPE N CONNECTORS			

## NOTES:

A. An "X" shall indicate a requirement for a crystal detector probe either installed on or provided as part of the ETE.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: STABILIZER, RADIO FREQUENCY  
ETE GENERIC CODE: SY0

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM FREQUENCY	HERTZ	6. MAXIMUM RF INPUT LEVEL	dBm
2. MAXIMUM FREQUENCY	HERTZ	7. BEST LOCK SENSITIVITY	dBm
3. FREQUENCY STABILITY	PARTS/ MILLION/DAY	8. VARIABLE CRYSTAL OSCILLATOR PULL RANGE	PERCENT
4. SHORT TERM STABILITY	PARTS/ MILLION/DAY	9. EXTERNAL REFERENCE INPUT FREQUENCY	HERTZ
5. MINIMUM RF INPUT LEVEL	dBm	10. HIGH VOLTAGE INSULATION	VOLTS
A. CONTINUOUS TUNING		I. EXTERNAL MIXER	
B. EXTERNAL TUNING		J. INTERNAL BATTERY POWER	
C. EXTERNAL TUNING VOLTAGE		K. 50 HZ POWER	
D. INTERNAL 5 MHZ REFERENCE		L. 60 HZ POWER	
E. EXTERNAL REFERENCE INPUT		M. 400 HZ POWER	
F. PHASE LOCK INDICATION		N. 115V AC	
G. PHASE ERROR INDICATION		O. 230V AC	
H. FREQUENCY MONITOR OUTPUT			

NOTES:

A. The ETE is considered to have a continuous output frequency if it covers all frequencies between the minimum and maximum specified output frequencies. When a continuously variable frequency is required, an "X" is entered. A synthesized generator is generally not considered to have a continuous output.

B. An "X" shall be entered if the ETE is required to have an external input to control the internal microwave oscillator.

C. An "X" shall be entered if the capability of using an external tuning voltage to vary the repeller of the reflex klystron or the helix of a BWO is required of the ETE.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT REQUIREMENTS

ETE NOUN NAME: SYNTHESIZER, FREQUENCY  
ETE GENERIC CODE: FSN

PARAMETER	UNITS	PARAMETER	UNITS
1. MINIMUM FREQUENCY	HERTZ	21. HARMONICS	-dBc
2. MAXIMUM FREQUENCY	HERTZ	22. RESIDUAL FM	HERTZ
3. FREQUENCY ACCURACY	PERCENT	23. RESIDUAL AM	-dBc
4. FREQUENCY RESOLUTION	HERTZ	24. MINIMUM INTERNAL MODULATION FREQUENCY	HERTZ
5. REFERENCE FREQUENCY	HERTZ	25. MAXIMUM INTERNAL MODULATION FREQUENCY	HERTZ
6. FREQUENCY STABILITY/DAY	PARTS/ MILLION	26. MAXIMUM AM DEPTH	PERCENT
7. FREQUENCY SWITCHING TIME	SECONDS	27. AM DISTORTION	PERCENT
8. MINIMUM FREQUENCY STEP	HERTZ	28. AM SENSITIVITY	PERCENT/ VOLT
9. MAXIMUM FREQUENCY STEP	HERTZ	29. FM MINIMUM RATE	HERTZ
10. MINIMUM OUTPUT LEVEL	-DECIBELS	30. FM MAXIMUM RATE	HERTZ
11. MAXIMUM OUTPUT LEVEL	+DECIBELS	31. FM MINIMUM DEVIATION	HERTZ PEAK
12. OUTPUT ACCURACY	DECIBELS	32. FM MAXIMUM DEVIATION	HERTZ PEAK
13. OUTPUT RESOLUTION	DECIBELS	33. FM DISTORTION	PERCENT
14. OUTPUT FLATNESS	DECIBELS	34. FM SENSITIVITY	HERTZ/VOLT
15. OUTPUT IMPEDANCE	OHMS	35. AM INCIDENTAL PM	RADIAN PEAK
16. OUTPUT SUR	NUMBER	36. AM INCIDENTAL FM	N x F MOD
17. OUTPUT LEVEL SWITCHING TIME	SECONDS	37. FM INCIDENTAL AM	-dBc
18. SPURIOUS NON-HARMONICS	-dBc	38. MAXIMUM REVERSE POWER PROTECTION	WATTS
19. SPURIOUS LINE RELATED	-dBc	39. MINIMUM SWEEP SPEED	SECONDS
20. SIGNAL-TO-PHASE NOISE RATIO	DECIBELS	40. MAXIMUM SWEEP SPEED	SECONDS
A. CW ONLY		O. EXTERNAL FM	
B. AUTO SWEEP		P. EXTERNAL PHASE-M	
C. MANUAL SWEEP		Q. OUTPUT LIMITING	
D. SINGLE SWEEP		R. REVERSE PWR PROTECT	
E. STEPPING		S. REFERENCE OUTPUT	
F. MICROPROCESSOR CONTROL		T. TTL OUTPUT	
G. DIGITAL READOUTS		U. RACK MOUNT CAPABILITY	
H. STEP ATTENUATOR		V. IEEE/488	
I. "N" OUTPUT		W. MARKERS	
J. "BNC" OUTPUT		X. 50 HZ POWER	
K. INTERNAL AM		Y. 60 HZ POWER	
L. INTERNAL FM		Z. 400 HZ POWER	
M. INTERNAL PHASE-M		AA. 115 VAC	
N. EXTERNAL AM		BB. 230 VAC	

## NOTES:

35,M,P. Refers to phase modulation.

14. The total variation of the output level across the frequency band expressed as a ratio between minimum and maximum output levels. For example, a response expressed as a ratio between minimum and maximum output levels of +/- 5 dB would be recorded as 10 dB.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

EIE NOUN NAME: TEST SET, ELECTRON TUBE  
EIE GENERIC CODE: TEO

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM FULL-SCALE TRANSCONDUCTANCE	MHOS	8. MINIMUM BIAS VOLTAGE	VOLTS
2. MAXIMUM FULL-SCALE TRANSCONDUCTANCE	MHOS	9. MAXIMUM BIAS VOLTAGE	VOLTS
3. BEST TRANSCONDUCTANCE ACCURACY	PERCENT	10. MINIMUM PLATE VOLTAGE	VOLTS
4. MAXIMUM TEST SIGNAL	VOLTS	11. MAXIMUM PLATE VOLTAGE	VOLTS
5. MINIMUM FILAMENT VOLTAGE	VOLTS	12. MAXIMUM PLATE CURRENT	AMPERES
6. MAXIMUM FILAMENT VOLTAGE	VOLTS	13. MINIMUM SCREEN VOLTAGE	VOLTS
7. MAXIMUM FILAMENT POWER	WATTS	14. MAXIMUM SCREEN VOLTAGE	VOLTS
A. LEAKAGE TEST		M. VOLTAGE REGULATOR CHECK	
B. SHORT TEST		N. RESERVE LIFE CHECK	
C. GAS TEST		O. HIGH-VOLTAGE RECTIFIER TEST	
D. CARD AUTOMATIC TESTER		P. THYRAIRON TEST	
E. ROLL CHART		Q. SELF-BIAS RESISTORS	
F. FOUR-, FIVE-, SIX-, AND SEVEN-PIN SOCKETS		R. CRT TEST	
G. OCTAL, LOCTAL SOCKETS		S. IEEE/488	
H. SEVEN- AND NINE-PIN MINIATURE SOCKETS		T. INTERNAL BATTERY POWER	
I. SEVEN-PIN IN-LINE SOCKET		U. 50 HZ POWER	
J. OCTAL SUBMINIATURE SOCKET		V. 60 HZ POWER	
K. NINE-PIN JUMBO SOCKET		W. 400 HZ POWER	
L. LINE-VOLTAGE SET		X. 115V AC	
		Y. 230V AC	

NOTES:

D. An "X" shall be entered if the EIE is required to use punch cards to set up the parameter for the tubes under test.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT REQUIREMENTS

ETE NOUN NAME: TEST SET, ENVELOPE DELAY, TELECOM  
ETE GENERIC CODE: TSD

PARAMETER	UNITS	PARAMETER	UNITS
1. MINIMUM CARRIER FREQUENCY	HERTZ	16. MINIMUM RECEIVER INPUT	dBm
2. MAXIMUM CARRIER FREQUENCY	HERTZ	17. MAXIMUM RECEIVER INPUT	dBm
3. BEST RF FREQUENCY ACCURACY	PERCENT	18. BEST INPUT METER ACCURACY	PERCENT
4. MINIMUM TRANSMITTER OUTPUT	dBm	19. MINIMUM INPUT IMPEDANCE	OHMS
5. MAXIMUM TRANSMITTER OUTPUT	dBm	20. MAXIMUM INPUT IMPEDANCE	OHMS
6. BEST OUTPUT FLATNESS	DECIBELS	21. MINIMUM SWEEP RATE	SWEEPS/ MINUTE
7. BEST OUTPUT METER ACCURACY	PERCENT	22. MAXIMUM SWEEP RATE	SWEEPS/ MINUTE
8. MINIMUM MODULATION FREQUENCY	HERTZ	23. COUNTER MINIMUM FREQUENCY MEASUREMENT	HERTZ
9. MAXIMUM MODULATION FREQUENCY	HERTZ	24. COUNTER MAXIMUM FREQUENCY MEASUREMENT	HERTZ
10. MAXIMUM AMPLITUDE MODULATION	PERCENT	25. COUNTER ACCURACY	DIGITS
11. MINIMUM DELAY MEASUREMENT	SECONDS	26. COUNTER INPUT SENSITIVITY	DECIBELS
12. MAXIMUM DELAY MEASUREMENT	SECONDS	27. COUNTER INPUT IMPEDANCE	OHMS
13. BEST DELAY ACCURACY	PERCENT	28. COUNTER INPUT CAPACITANCE	FARADS
14. MINIMUM OUTPUT IMPEDANCE	OHMS		
15. MAXIMUM OUTPUT IMPEDANCE	OHMS		
A. DIGITAL FREQUENCY READOUT		M. 83-1/3 HZ MODULATION FREQUENCY	
B. DIGITAL DELAY READOUT		N. 250 HZ MODULATION FREQUENCY	
C. END-TO-END OPERATION		O. SWEEP OUTPUT	
D. LOOP-TO-BACK OPERATION		P. OSCILLOSCOPE OUTPUT	
E. END-TO-END WITH RETURN REFERENCE		Q. FREQUENCY COUNTER MODE	
F. BALANCED OUTPUT		R. X-Y OUTPUT	
G. BALANCED INPUT		S. INTERNAL BATTERY POWER	
H. 75 OHMS INPUT/OUTPUT IMPEDANCE		T. 50 HZ POWER	
I. 135 OHMS INPUT/OUTPUT IMPEDANCE		U. 60 HZ POWER	
J. 600 OHMS INPUT/OUTPUT IMPEDANCE		V. 400 HZ POWER	
K. 900 OHMS INPUT/OUTPUT IMPEDANCE		W. 115V AC	
L. 25 HZ MODULATION FREQUENCY		X. 230V AC	

## NOTES:

1,23. A minimum frequency of dc shall be indicated by a zero.

6. The total allowed variation of output amplitude across the frequency band expressed as a ratio between minimum and maximum output levels. For example, a requirement for +/- 5 dB flatness from a reference level shall be recorded as 10 dB.

Q. An "X" shall be entered if the ETE is required to have a frequency counter mode.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT REQUIREMENTS

ETE NOUN NAME: TEST SET, FREQUENCY RESPONSE  
ETE GENERIC CODE: TS8

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM FREQUENCY	HERTZ	11. POWER MEASUREMENT ACCURACY	DECIBELS
2. MAXIMUM FREQUENCY	HERTZ	12. DYNAMIC RANGE	DECIBELS
3. WORST CASE FREQUENCY RESPONSE	DECIBELS	13. MINIMUM DISPLAY OFFSET	DECIBELS
4. MINIMUM INPUT	dBm	14. MAXIMUM DISPLAY OFFSET	DECIBELS
5. MAXIMUM INPUT	dBm	15. DRIVE FREQUENCY	HERTZ
6. INPUT VSWR	NUMBER	16. RECORDER OUTPUT	VOLTS/ DIVISION
7. IMPEDANCE	OHMS		
8. RATIO MEASUREMENT RANGE	DECIBELS	17. X-Y CRT DISPLAY AREA IN SQUARE DIVISIONS	NUMBER
9. RATIO ACCURACY	DECIBELS		
10. BEST RESOLUTION	DECIBELS/ DIVISION		
A. DUAL CHANNEL CAPABILITY		F. 50 HZ POWER	
B. TYPE N CONNECTORS		G. 60 HZ POWER	
C. MARKER INPUT		H. 400 HZ POWER	
D. BLANKING INPUT		I. 115V AC	
E. INTERNAL BATTERY POWER		J. 230V AC	

NOTES:

1. A minimum frequency of dc shall be indicated by a zero.
6. The maximum VSWR allowed at the input of the ETE shall be entered.
17. For example, an 8 X 10 division display would contain 80 square divisions.



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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

EIE NOUN NAME: TEST SET, IMPULSE/NOISE, TELECOM  
EIE GENERIC CODE: TSB

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MAXIMUM COUNTING RATE	PULSES/ SECOND	9. MAXIMUM COUNT TIME	MINUTES
2. MINIMUM COUNTING RATE	PULSES/ SECOND	10. WORST CASE COMMON MODE REJECTION	DECIBELS
3. COUNTING RATE ACCURACY	PERCENT	11. MAXIMUM BRIDGING LOSS	DECIBELS
4. MAXIMUM IMPULSE NOISE SENSITIVITY	dB RN	12. MINIMUM FREQUENCY FLAT WEIGHTING	HERTZ
5. MINIMUM IMPULSE NOISE SENSITIVITY	dB RN	13. MAXIMUM FREQUENCY FLAT WEIGHTING	HERTZ
6. MAXIMUM LO-LEVEL LIMIT	dB RN	14. MINIMUM NOISE VOLTAGE	dB RN
7. MINIMUM HI-LEVEL LIMIT	dB RN	15. MAXIMUM NOISE VOLTAGE	dB RN
8. REGISTER LEVEL ADJUST	DECIBELS	16. NOISE VOLTMETER ACCURACY	DECIBELS
		17. DIGITS PER REGISTER	NUMBER
		18. HOLD CIRCUIT DC RESISTANCE	OHMS
A. C-MESSAGE WEIGHTING		M. 135 OHM INPUT IMPEDANCE	
B. 10.2-51 KHZ WEIGHTING		N. 150 OHM INPUT IMPEDANCE	
C. EXTERNAL WEIGHTING		O. 600 OHM INPUT IMPEDANCE	
D. FLAT WEIGHTING		P. 900 OHM INPUT IMPEDANCE	
E. MONITOR JACK		Q. IEEE/488	
F. NUMBER OF IMPULSE REGISTERS	NUMBER	R. INTERNAL BATTERY POWER	
G. HOLD CIRCUIT		S. 50 HZ POWER	
H. NOISE-TO-GROUND MEASUREMENT		T. 60 HZ POWER	
I. INTERNAL TRANSMISSION		U. 400 HZ POWER	
J. ADJUSTABLE COUNTER		V. 115V AC	
K. BALANCED INPUT		W. 230V AC	
L. UNBALANCED INPUT			

## NOTES:

4. The best (most sensitive) input sensitivity required.

5. The least sensitive level of input required.

10. A measure of how well the EIE shall be required to ignore a signal appearing simultaneously and in phase on both input terminals.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: TEST SET, INSULATION (INCLUDES HIGH-VOLTAGE TEST SETS)  
ETE GENERIC CODE: TE4

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MAXIMUM DC TEST VOLTAGE	VOLTS	7. VOLTAGE METER ACCURACY	PERCENT
2. MINIMUM DC TEST VOLTAGE	VOLTS	8. MINIMUM CURRENT FULL-SCALE	AMPERES
3. MAXIMUM AC TEST VOLTAGE	VOLTS	9. MAXIMUM CURRENT FULL-SCALE	AMPERES
4. MINIMUM AC TEST VOLTAGE	VOLTS	10. CURRENT METER ACCURACY	PERCENT
5. MAXIMUM AC TEST POWER	VOLT-AMPERES	11. MAXIMUM OUTPUT TIMER SETTING	MINUTES
6. AC TEST FREQUENCY	HERTZ		
A. HIGH-VOLTAGE WARNING LAMP		F. 60 HZ POWER	
B. STEP OUTPUT		G. 400 HZ POWER	
C. CONTINUOUSLY ADJUSTABLE OUTPUT		H. 115V AC	
D. INTERNAL BATTERY POWER		I. 230V AC	
E. 50 HZ POWER			

NOTES:

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

EIE NOUN NAME: TEST SET, LOGIC (INCLUDES TEST SET, LOGIC PROBE, AND TEST SET, LOGIC PROBE KIT)  
EIE GENERIC CODE: TS3

PARAMETER	UNITS	PARAMETER	UNITS
1. COMPARATOR INPUT THRESHOLD	VOLTS	12. PROBE CONTINUOUS INPUT PROTECTION	VOLTS
2. COMPARATOR MINIMUM INPUT PROTECTION	VOLTS	13. PROBE MINIMUM PULSE WIDTH	SECONDS
3. COMPARATOR MAXIMUM INPUT PROTECTION	VOLTS	14. PULSER OUTPUT HIGH	VOLTS
4. COMPARATOR ERROR SENSITIVITY	SECONDS	15. PULSER OUTPUT LOW	VOLTS
5. COMPARATOR DELAY IMMUNITY	SECONDS	16. PULSER ACTIVE IMPEDANCE	OHMS
6. PROBE INPUT IMPEDANCE	OHMS	17. PULSER OFF IMPEDANCE	OHMS
7. PROBE LOGIC 1 TTL THRESHOLD	VOLTS	18. PULSER PULSE WIDTH	SECONDS
8. PROBE LOGIC 1 CMOS THRESHOLD	VOLTS	19. PULSER INPUT OVERLOAD PROTECTION	VOLTS
9. PROBE LOGIC 0 TTL THRESHOLD	VOLTS	20. CLIP INPUT THRESHOLD	VOLTS
10. PROBE LOGIC 0 CMOS THRESHOLD	VOLTS	21. CLIP MINIMUM INPUT PROTECTION	VOLTS
11. PROBE MAXIMUM INPUT PRF	HERTZ	22. CLIP MAXIMUM INPUT PROTECTION	VOLTS
A. TTL COMPATIBLE		G. 50 HZ POWER	
B. DTL COMPATIBLE		H. 60 HZ POWER	
C. CMOS COMPATIBLE		I. 400 HZ POWER	
D. ECL COMPATIBLE		J. 115V AC	
E. PULSER ROM PROGRAM		K. 230V AC	
F. INTERNAL BATTERY POWER			

## NOTES:

1,2,3,4,5. Applies to logic comparator only.

6,7,8,9,10,11,12,13. Applies to logic probe only.

14,15,16,17,18,19. Applies to logic pulser only.

20,21,22. Applies to logic clip only.

A. Transistor-Transistor-Logic compatible.

B. Diode-Transistor-Logic compatible.

C. Complementary-Metal-Oxide-Semiconductor compatible.

D. Emitter-Coupled-Logic compatible.

E. Pulser Read-Only-Memory program.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: TEST SET, LORAN  
ETE GENERIC CODE: TS7

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. CHANNEL FREQUENCY ACCURACY	PERCENT	7. MINIMUM DELAY MASTER/SLAVE	SECONDS
2. MAXIMUM OUTPUT	VOLTS	8. MAXIMUM DELAY MASTER/SLAVE	SECONDS
3. MINIMUM OUTPUT	VOLTS	9. BEST DELAY ACCURACY	SECONDS
4. OUTPUT ATTENUATOR RANGE	DECIBELS	10. MINIMUM REPETITION INTERVAL	NUMBER
5. OUTPUT ATTENUATOR STEP	NUMBER	11. MAXIMUM REPETITION INTERVAL	NUMBER
6. OUTPUT ATTENUATOR ACCURACY	PERCENT	12. OUTPUT IMPEDANCE	OHMS
A. CALIBRATED RF OUTPUT		J. 1950 KHZ CHANNEL	
B. UNCALIBRATED RF OUTPUT		K. 303.03 HZ	
C. TELESCOPING RF ANTENNA		L. INTERNAL BATTERY POWER	
D. ANTENNA RADIATED RF OUTPUT		M. 50 HZ POWER	
E. 100 KHZ CHANNEL		N. 60 HZ POWER	
F. 180 KHZ CHANNEL		O. 400 HZ POWER	
G. 1750 KHZ CHANNEL		P. 115V AC	
H. 1850 KHZ CHANNEL		Q. 230V AC	
I. 1900 KHZ CHANNEL			

NOTES:

7,8. The minimum (parameter 7)/maximum (parameter 8) delay that can be set between the master and the slave RF pulse pairs.

E,F,G,H,I,J. An "X" shall indicate required channel frequencies.

K. An "X" shall be entered if the ETE is required to provide this synchronization frequency.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: TEST SET, MEASURING, POWER  
ETE GENERIC CODE: WA1

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MAXIMUM FREQUENCY RANGE	HERTZ	8. BEST POWER DIRECTIVITY	RATIO
2. MINIMUM FREQUENCY RANGE	HERTZ	9. MAXIMUM POWER DISSIPATION	WATTS
3. MAXIMUM POWER	WATTS	10. MAXIMUM INPUT WITHOUT DAMAGE	WATTS
4. MINIMUM POWER	WATTS	11. VSWR	NUMBER
5. BEST METER ACCURACY	PERCENT OF FULL SCALE	12. MINIMUM INPUT IMPEDANCE	OHMS
6. BEST OVERALL MEASUREMENT ACCURACY	PERCENT OF FULL SCALE	13. MAXIMUM INPUT IMPEDANCE	OHMS
7. BEST REFLECTED POWER MEASUREMENT ACCURACY	PERCENT OF SETTING	14. BEST INPUT IMPEDANCE ACCURACY	PERCENT OF SETTING
A. THRU LINE		J. ANALOG DISPLAY	
B. TERMINATING		K. CALIBRATED READOUT IN WATTS	
C. ABSORPTION		L. CALIBRATED READOUT IN VOLTS	
D. DUMMY LOAD		M. INTERNAL BATTERY POWER	
E. TYPE N INPUT CONNECTOR		N. 50 HZ POWER	
F. TYPE N OUTPUT CONNECTOR		O. 60 HZ POWER	
G. WAVEGUIDE INPUT CONNECTOR		P. 400 HZ POWER	
H. WAVEGUIDE OUTPUT CONNECTOR		Q. 115V AC	
I. DIGITAL DISPLAY		R. 230V AC	

## NOTES:

B. A minimum frequency of dc shall be indicated by a zero.

11. The maximum allowable VSWR at the ETE input shall be entered.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

EIE NOUN NAME: TEST SET, MEASURING, POWER, ELECTRONIC  
EIE GENERIC CODE: WAO

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MAXIMUM FREQUENCY	HERTZ	12. MINIMUM CALIBRATION FACTOR CONTROL RANGE	PERCENT
2. MINIMUM FREQUENCY	HERTZ	13. MAXIMUM CALIBRATION FACTOR CONTROL RANGE	PERCENT
3. MAXIMUM POWER FULL SCALE	dBm	14. CALIBRATION FACTOR CONTROL STEP INCREMENTS	PERCENT
4. MINIMUM POWER FULL SCALE	dBm	15. NUMBER OF POWER HEADS OR SENSORS	NUMBER
5. BEST SENSITIVITY	dBm	16. NOMINAL IMPEDANCE	OHMS
6. BEST MEASUREMENT ACCURACY	PERCENT OF FULL SCALE	17. NOISE	VOLTS
7. STABILITY	PERCENT/DAY	18. MAXIMUM RESPONSE TIME	SECONDS
8. MAXIMUM MODULATION RATE	PULSES/SECOND	19. VSWR FOR COAXIAL POWER HEADS	NUMBER
9. MINIMUM MODULATION RATE	PULSES/SECOND	20. VSWR FOR WAVEGUIDE POWER HEADS	NUMBER
10. MAXIMUM MODULATION PULSE WIDTH	SECONDS	21. MAXIMUM INPUT WITHOUT DAMAGE	WATTS
11. MINIMUM MODULATION PULSE WIDTH	SECONDS		
A. DIGITAL READOUT		J. RECORDER OUTPUT	
B. CALIBRATED READOUT IN dBm		K. VIDEO OUTPUT	
C. CALIBRATED READOUT IN MILLIWATTS		L. IEEE/488	
D. MODULATED RF MEASURING CAPABILITY		M. INTERNAL BATTERY POWER	
E. CALORIMETRIC		N. 50 HZ POWER	
F. ZERO SET		O. 60 HZ POWER	
G. TYPE N POWER HEAD		P. 400 HZ POWER	
H. WAVEGUIDE TYPE POWER HEAD		Q. 115V AC	
I. CALIBRATION FACTOR CHART		R. 230V AC	

NOTES:

2. A minimum frequency of dc shall be indicated by a zero.

8,9,10,11. This parameter is of interest when the power measurement is to be performed on a pulsed signal and will have a bearing on determining the type of power measuring test set required.

19,20. The maximum allowable VSWR at the input of the EIE.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: TEST SET, MEASURING, RADIATION HAZARD (INCLUDES METER, RADIATION HAZARD, IF GPETE)  
ETE GENERIC CODE: RHO

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM FREQUENCY	HERTZ	8. POWER INDICATION ACCURACY	DECIBELS
2. MAXIMUM FREQUENCY	HERTZ	9. MAXIMUM PEAK OVERLOAD	WATTS/SQUARE CENTIMETER
3. DYNAMIC RANGE OF MEASUREMENT	DECIBELS	10. MAXIMUM AVERAGE OVERLOAD	WATTS/SQUARE CENTIMETER
4. FREQUENCY SENSITIVITY	DECIBELS	11. RESPONSE TIME	SECONDS
5. BATTERY OPERATION LIFE	HOURS		
6. MINIMUM POWER INDICATION	WATTS/SQUARE CENTIMETER		
7. MAXIMUM POWER INDICATION	WATTS/SQUARE CENTIMETER		
A. RECORDER OUTPUT		C. BATTERY LEVEL INDICATOR	
B. DIRECTIONAL PROBE		D. BATTERY RECHARGEABLE	

## NOTES:

5. The number of hours the ETE is required to operate on battery without recharging.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: TEST SET, MEASURING, RIFI (INCLUDES RIFI METERS)  
ETE GENERIC CODE: F10

PARAMETER	UNITS	PARAMETER	UNITS
1. MINIMUM FREQUENCY	HERTZ	10. MINIMUM BANDWIDTH AT -6 dB	HERTZ
2. MAXIMUM FREQUENCY	HERTZ	11. MAXIMUM BANDWIDTH AT -6 dB	HERTZ
3. FREQUENCY SCALE ACCURACY	PERCENT	12. BEST GAIN FLATNESS	DECIBELS
4. MAXIMUM SENSITIVITY	VOLTS	13. IF REJECTION	DECIBELS
5. MINIMUM SENSITIVITY	VOLTS	14. IMAGE REJECTION	DECIBELS
6. VOLTAGE MEASUREMENT RANGE	DECIBELS	15. SPURIOUS REJECTION	DECIBELS
7. VOLTAGE ACCURACY	DECIBELS	16. MAXIMUM LOCAL OSCILLATOR RADIATION	WATTS
8. MAXIMUM INPUT SIGNAL	VOLTS	17. SHIELDING EFFECTIVENESS	DECIBELS
9. INPUT VSWR	NUMBER	18. AUDIO OUTPUT LEVEL	dBm
A. 50 OHM INPUT RESISTANCE		L. IEEE/488	
B. TYPE N CONNECTOR		M. OSCILLOSCOPE OUTPUT	
C. IMPULSE CALIBRATOR		N. IF OUTPUT	
D. BEAT FREQUENCY OSCILLATOR		O. FREQUENCY ANALOG OUTPUT	
E. FM DISCRIMINATOR		P. AMPLITUDE ANALOG OUTPUT	
F. AVERAGE DETECTOR		Q. INTERNAL BATTERY POWER	
G. PEAK DETECTOR		R. 50 HZ POWER	
H. QUASI-PEAK DETECTOR		S. 60 HZ POWER	
I. AGC SWITCH		T. 400 HZ POWER	
J. AUTO SCAN		U. 115V AC	
K. CALIBRATED ANTENNA		V. 230V AC	

## NOTES:

1. A minimum frequency of dc shall be indicated by zero.
4. The most sensitive input level required of the ETE. The smallest workable input voltage.
5. The least sensitive input level required of the ETE.
- 4,5. If both maximum (parameter 4) and minimum (parameter 5) sensitivities are entered, a change in sensitivity is required across the frequency band.
9. The maximum allowable VSWR of the ETE at its input.
18. The audio output level required of the ETE.



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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

EIE NOUN NAME: TEST SET, MEASURING, SWR (INCLUDES VSWR METERS)  
EIE GENERIC CODE: TS2

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM INPUT FREQUENCY	HERTZ	11. WORST CASE WAVEGUIDE VSWR	NUMBER
2. MAXIMUM INPUT FREQUENCY	HERTZ	12. MINIMUM BANDWIDTH	HERTZ
3. BEST ACCURACY	DECIBELS	13. MAXIMUM BANDWIDTH	HERTZ
4. MINIMUM dB RANGE	DECIBELS	14. RF INPUT CONNECTOR	TYPE
5. MAXIMUM dB RANGE	DECIBELS	15. TERMINATION CONNECTOR	TYPE
6. BEST SENSITIVITY	VOLTS	16. OUTPUT CONNECTOR	TYPE
7. BRIDGE ACCURACY	PERCENT	17. ALC OUTPUT CONNECTOR	TYPE
8. RESOLUTION	DECIBELS/ DIVISION	18. CALIBRATED MISMATCHES	NUMBER
9. NOISE FIGURE	DECIBELS	19. MAXIMUM INPUT WITHOUT DAMAGE	WATTS
10. WORST CASE COAXIAL VSWR	NUMBER	20. INPUT IMPEDANCE	OHMS
A. RECORDER OUTPUT		G. INTERNAL BATTERY POWER	
B. AMPLIFIER OUTPUT		H. 50 HZ POWER	
C. CRYSTAL DETECTOR		I. 60 HZ POWER	
D. BOLOMETER DETECTOR		J. 400 HZ POWER	
E. COAXIAL SLOTTED LINE		K. 115V AC	
F. WAVEGUIDE SLOTTED LINE		L. 230V AC	

## NOTES:

1. A minimum frequency of dc shall be indicated by a zero.

C,D. An "K" shall be entered if the EIE is required to have this function.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: TEST SET, PULSE SIGNALING, TELECOM  
ETE GENERIC CODE: TSP

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. PERCENT BREAK METER MAXIMUM INDICATION	PERCENT	9. METER CIRCUIT IMPEDANCE	OHMS
2. PERCENT BREAK METER MINIMUM INDICATION	PERCENT	10. METER RELAY IMPEDANCE	OHMS
3. PERCENT BREAK METER ACCURACY	PERCENT	11. SPEED MEASURING CIRCUIT IMPEDANCE	OHMS
4. PERCENT BREAK METER RESOLUTION	PERCENT	12. INTERNAL OSCILLATOR MINIMUM FREQUENCY	PULSES/ SECOND
5. SPEED METER FULL-SCALE INDICATION	PULSES/ SECOND	13. INTERNAL OSCILLATOR MAXIMUM FREQUENCY	PULSES/ SECOND
6. SPEED METER MINIMUM INDICATION	PULSES/ SECOND	14. SEND PERCENT BREAK MINIMUM RANGE	PERCENT
7. SPEED METER ACCURACY	PERCENT	15. SEND PERCENT BREAK MAXIMUM RANGE	PERCENT
8. SPEED METER RESOLUTION	PULSES/ SECOND	16. NOMINAL DC SUPPLY VOLTAGE	VOLTS
		17. NOMINAL AC SUPPLY VOLTAGE	VOITS
A. RECEIVE FUNCTION		L. SPARK SUPPRESSION	
B. SEND FUNCTION		M. RACK MOUNT	
C. LOOP OPERATION		N. PORTABLE	
D. E&M OPERATION		O. IEEE/488	
E. METER CALIBRATION		P. INTERNAL BATTERY POWER	
F. PERCENT BREAK ADJUSTABLE		Q. 50 HZ POWER	
G. FIXED INTERNAL FREQUENCY		R. 60 HZ POWER	
H. NUMBER OF INTERNAL FREQUENCIES		S. 400 HZ POWER	
I. VARIABLE OSCILLATORS		T. 115V AC	
J. EXTERNAL OSCILLATOR INPUT		U. 230V AC	
K. SUPERVISORY INDICATOR			

## NOTES:

D. An "X" shall be entered if the ETE is required to have both an M lead on which a battery or ground signal is transmitted to the signaling equipment and an E lead over which open or ground signals are received from the signaling unit.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: TEST SET, RADAR  
ETE GENERIC CODE: T95

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM FREQUENCY	HERTZ	15. MAXIMUM POWER MEASUREMENT	WATTS
2. MAXIMUM FREQUENCY	HERTZ	16. BEST POWER MEASUREMENT	PERCENT
3. BEST FREQUENCY ACCURACY	HERTZ	17. BEST POWER MEASUREMENT RESOLUTION	DECIBELS
4. BEST FREQUENCY RESOLUTION	HERTZ	18. SPECTRUM ANALYZER INPUT SENSITIVITY	VOLTS
5. MINIMUM RF OUTPUT LEVEL	dBm	19. SPECTRUM ANALYZER SCAN WIDTH	HERTZ
6. MAXIMUM RF OUTPUT LEVEL	dBm	20. SPECTRUM ANALYZER MINIMUM SWEEP SPEED	SWEEPS/ SECOND
7. RF OUTPUT ACCURACY	DECIBELS	21. SPECTRUM ANALYZER MAXIMUM SWEEP SPEED	SWEEPS/ SECOND
8. MINIMUM PULSE REPETITION FREQUENCY	PULSES/ SECOND	22. BEST MDS INDICATOR RESOLUTION	DECIBELS
9. MAXIMUM PULSE REPETITION FREQUENCY	PULSES/ SECOND	23. MAXIMUM OSCILLOSCOPE SENSITIVITY	VOLTS/ DIVISION
10. BEST PRF INDICATOR RESOLUTION	HERTZ	24. MAXIMUM OSCILLOSCOPE FREQUENCY RESPONSE	HERTZ
11. MINIMUM PULSE WIDTH	SECONDS	25. SYNC SCOPE INPUT IMPEDANCE	OHMS
12. MAXIMUM PULSE WIDTH	SECONDS	26. MAXIMUM FM SWEEP EXCURSION	HERTZ
13. BEST PULSE WIDTH INDICATOR RESOLUTION	SECONDS		
14. MINIMUM POWER MEASUREMENT	WATTS		
A. FREQUENCY DIGITAL DISPLAY		I. SYNC CAPABILITY	
B. POWER MEASUREMENT DIGITAL DISPLAY		J. INTERNAL BATTERY POWER	
C. PRF DIGITAL DISPLAY		K. 50 HZ POWER	
D. MDS DIGITAL DISPLAY		L. 60 HZ POWER	
E. PULSE WIDTH DIGITAL DISPLAY		M. 400 HZ POWER	
F. RANGE MARKS		N. 115V AC	
G. EXTERNAL MODULATION CAPABILITY		O. 230V AC	
H. FM CAPABILITY			

## NOTES:

1. The minimum frequency that any part of the ETE is to be capable of measuring and/or generating.
2. The maximum frequency that any part of the ETE is to be capable of measuring and/or generating.
3. The least deviation allowable from the nominal or indicated value.
5. The minimum usable, calibrated output level required of the ETE.
6. The maximum usable, calibrated output level required of the ETE.
18. The minimum signal level required to produce 1 centimeter of deflection.
23. The most sensitive position required for the vertical input.
- G. Defines the requirement for the signal generator part of the ETE to respond to an external modulation signal.
- H. Defines the requirement for the signal generator part of the ETE to produce a frequency-modulated signal.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: TEST SET, RADAR  
ETE GENERIC CODE: TS5

NOTES:

I. Defines the requirement for the ETE spectrum analyzer frequency sweep circuit to be synchronized by an external sweep synchronization signal.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: TEST SET, RADIO  
ETE GENERIC CODE: TSM

PARAMETER	UNITS	PARAMETER	UNITS
1. MINIMUM FREQUENCY	HERTZ	15. OUTPUT VSWR	NUMBER
2. MAXIMUM FREQUENCY	HERTZ	16. LEAKAGE	VOLTS
3. FREQUENCY ACCURACY	PARTS/ MILLION	17. HARMONIC OUTPUT BELOW FUNDAMENTAL	DECIBELS
4. BEST FREQUENCY RESOLUTION	HERTZ	18. NONHARMONIC OUTPUT BELOW FUNDAMENTAL	DECIBELS
5. BEST RATED FREQUENCY STABILITY	PARTS/ MILLION/ YEAR	19. MAXIMUM RESIDUAL AM	dBc
6. MAXIMUM SWEEP WIDTH	HERTZ	20. MAXIMUM RESIDUAL FM	HERTZ
7. MINIMUM SWEEP WIDTH	HERTZ	21. MAXIMUM SENSITIVITY	VOLTS
8. MAXIMUM SWEEP RATE	HERTZ	22. INTERNAL MODULATION FREQUENCY	HERTZ
9. MAXIMUM SEARCH FREQUENCY	HERTZ	23. MINIMUM EXTERNAL AM FREQUENCY	HERTZ
10. MINIMUM SEARCH FREQUENCY	HERTZ	24. MAXIMUM EXTERNAL AM FREQUENCY	HERTZ
11. MINIMUM OUTPUT LEVEL	dBm	25. MAXIMUM AM PERCENT	PERCENT
12. MAXIMUM OUTPUT LEVEL	dBm	26. AM ACCURACY	PERCENT
13. OUTPUT LEVEL ACCURACY	DECIBELS	27. MINIMUM EXTERNAL FM FREQUENCY	HERTZ
14. OUTPUT IMPEDANCE	OHMS	28. MAXIMUM EXTERNAL FM FREQUENCY	HERTZ
A. DIGITAL READOUT		29. MAXIMUM FM DEVIATION	HERTZ
B. FREQUENCY VERNIER		30. FM DEVIATION ACCURACY	PERCENT
C. LEVEL VERNIER		31. MODULATION DISTORTION	PERCENT
D. SWEEP FUNCTION		K. INTERNAL SYNCHRONIZATION	
E. SEARCH FUNCTION		L. RACK MOUNT	
F. OUTPUT PROTECTION		M. SPEAKER	
G. OSCILLOSCOPE DISPLAY		N. INTERNAL BATTERY POWER	
H. DEMOD OUTPUT		O. 50 HZ POWER	
I. BNC CONNECTORS		P. 60 HZ POWER	
J. N CONNECTORS		Q. 400 HZ POWER	
		R. 115V AC	
		S. 230V AC	

## NOTES:

1,2. The minimum (parameter 1)/maximum (parameter 2) input and output frequency required of the ETE, excluding any modulation frequencies. A minimum frequency of dc shall be indicated by a zero.

16. The maximum voltage allowed to be induced in a two-turn, 1-inch-diameter coil 1 inch distant from any surface of the ETE.

17. The ratio in dB below which all integral multiples of the ETE fundamental frequency shall be found.

A. An "X" shall be entered if the ETE is required to have a digital display format to indicate the output or input frequency. This display format can be an LED readout, thumbwheel switches, etc.

F. An "X" shall be entered if a reverse power protection circuit or device is required of the ETE.

G. An "X" shall be entered if the ETE is required to have an oscilloscope function for displaying output or input signals.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: TEST SET, RECORDER, TAPE  
ETE GENERIC CODE: FTO

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. CARRIER FREQUENCY	HERTZ	11. MINIMUM OUTPUT	VOLTS
2. MINIMUM FLUTTER FREQUENCY	HERTZ	12. MAXIMUM OUTPUT	VOLTS
3. MAXIMUM FLUTTER FREQUENCY	HERTZ	13. BEST RATED DISTORTION	PERCENT
4. MINIMUM INPUT LEVEL	VOLTS	14. OUTPUT IMPEDANCE	OHMS
5. MAXIMUM INPUT LEVEL	VOLTS	15. NUMBER OF FULL-SCALE RANGES	NUMBER
6. MAXIMUM INPUT WITHOUT DAMAGE	VOLTS	16. MINIMUM SIGNAL-TO-NOISE RATIO	NUMBER
7. INPUT IMPEDANCE	OHMS	17. MAXIMUM SIGNAL-TO-NOISE RATIO	NUMBER
8. MAXIMUM PERCENT FLUTTER	PERCENT	18. MAXIMUM 2ND-HARMONIC DISTORTION	DECIBELS
9. MINIMUM PERCENT FLUTTER	PERCENT	19. MAXIMUM 3RD-HARMONIC DISTORTION	DECIBELS
10. BEST ACCURACY	PERCENT FLUTTER	20. LEVEL OUT FLATNESS	+/-DECIBELS/ 1000 HERTZ
A. OSCILLOSCOPE OUTPUT		I. MICROPHONE TEST OUTPUT	
B. RECORDER OUTPUT		J. IEEE/488	
C. FILTER SWITCH		K. INTERNAL BATTERY POWER	
D. DISTORTION TEST		L. 50 HZ POWER	
E. RESPONSE TEST		M. 60 HZ POWER	
F. SIGNAL-TO-NOISE TEST		N. 400 HZ POWER	
G. ANALOG LEVEL INDICATOR		O. 115V AC	
H. DIGITAL LEVEL INDICATOR		P. 230V AC	

NOTES:

1. If more than one carrier frequency is required, the highest frequency shall be entered. Additional carrier frequencies shall be entered under "Special Requirements."

15. The number of percent full-scale flutter ranges required.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: TEST SET, SEMICONDUCTOR  
ETE GENERIC CODE: TE1

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM BETA	NUMBER	10. MAXIMUM ICEO LEAKAGE	AMPERES
2. MAXIMUM BETA	NUMBER	11. BEST LEAKAGE ACCURACY	PERCENT
3. BEST BETA ACCURACY	NUMBER	12. MINIMUM OHMS CENTER SCALE	OHMS
4. MINIMUM BASE CURRENT	AMPERES	13. MAXIMUM OHMS CENTER SCALE	OHMS
5. MAXIMUM BASE CURRENT	AMPERES	14. BEST RESISTANCE ACCURACY	PERCENT
6. BIAS CURRENT RANGES	NUMBER	15. MINIMUM SHUNT RESISTANCE IN-CIRCUIT	OHMS
7. MINIMUM ICBO LEAKAGE	AMPERES	16. MAXIMUM FET TRANSCONDUCTANCE	MHOS
8. MAXIMUM ICBO LEAKAGE	AMPERES	17. BEST TRANSCONDUCTANCE ACCURACY	PERCENT
9. MINIMUM ICEO LEAKAGE	AMPERES		
A. EMITTER-BASE BIAS IDENTIFIER		L. JUNCTION IDENTIFIER	
B. DIODE TEST		M. TO-3 SOCKET	
C. PANEL CALIBRATION SET		N. TO-5 SOCKET	
D. CIRCUIT PROTECTION		O. TO-18 SOCKET	
E. AUTOMATIC POLARITY INDICATOR		P. TO-66 SOCKET	
F. AUTOMATIC LEAD ORIENTATION		Q. INTERNAL BATTERY POWER	
G. LINEAR BETA SCALE		R. 50 HZ POWER	
H. IN-CIRCUIT PROBE		S. 60 HZ POWER	
I. GERMANIUM/SILICON IDENTIFIER		T. 400 HZ POWER	
J. AUDIBLE GO/NO-GO SIGNAL		U. 115V AC	
K. VISIBLE GO/NO-GO INDICATION		V. 230V AC	

## NOTES:

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: TEST SET, SONAR  
ETE GENERIC CODE: TS6

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM FREQUENCY	HERTZ	11. Y-AXIS PEN TRAVEL	CENTIMETERS
2. MAXIMUM FREQUENCY	HERTZ	12. PEN DYNAMIC RANGE	DECIBELS
3. MINIMUM INPUT	VOLTS	13. BEST RECORDING ACCURACY	DECIBELS
4. MAXIMUM INPUT	VOLTS	14. MAXIMUM SLEW SPEED	DECIBELS/ SECOND
5. CALIBRATED ATTENUATOR RANGE	DECIBELS	15. BEARING RANGE	DEGREES
6. LINEARITY	DECIBELS	16. BEARING ACCURACY	DEGREES
7. INPUT NOISE	VOLTS	17. TIME BASE	MINUTES
8. MAXIMUM OVERSHOOT	DECIBELS	18. INPUT CAPACITANCE	FARADS
9. MINIMUM CREST FACTOR	NUMBER	19. INPUT RESISTANCE	OHMS
10. X-AXIS PEN TRAVEL	CENTIMETERS		
A. MICROPHONE ASSEMBLY		K. 36-SPEED SYNCHRO	
B. CONTACT PROBE		L. ACOUSTIC OUTPUT	
C. HYDROPHONE CONNECTOR		M. CHART RECORDER	
D. CALIBRATE SIGNAL		N. INTERNAL BATTERY POWER	
E. PEN TYPE		O. 50 HZ POWER	
F. PAPER HOLD-DOWN		P. 60 HZ POWER	
G. RECORDER PAPER		Q. 400 HZ POWER	
H. SUBMERSIBLE PROBE		R. 115V AC	
I. HEAD SET		S. 230V AC	
J. ONE-SPEED SYNCHRO			

NOTES:

1. A minimum frequency of dc shall be indicated by a zero.

E. An "X" shall indicate that a pen is required.

G. An "X" shall indicate that recorder paper is required.

I. An "X" shall indicate that a headset is required.



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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: TEST SET, TRANSMISSION, TELECOM  
ETE GENERIC CODE: TST

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. TRANSMIT MINIMUM FREQUENCY	HERTZ	13. RECEIVE MAXIMUM FREQUENCY	HERTZ
2. TRANSMIT MAXIMUM FREQUENCY	HERTZ	14. RECEIVE FREQUENCY RESPONSE	DECIBELS
3. TRANSMIT FREQUENCY ACCURACY	PERCENT	15. RECEIVE MAXIMUM RMS INPUT TO 600 OHMS	VOLTS
4. TRANSMIT FREQUENCY RESPONSE	DECIBELS	16. RECEIVE MINIMUM RMS FULL-SCALE	VOLTS
5. TRANSMIT FREQUENCY DISTORTION	PERCENT	VOLTAGE RANGE	
6. TRANSMIT MINIMUM RMS LEVEL AT 600 OHMS	VOLTS	17. RECEIVE MAXIMUM RMS FULL-SCALE	VOLTS
7. TRANSMIT MAXIMUM RMS LEVEL AT 600 OHMS	VOLTS	VOLTAGE RANGE	
8. TRANSMIT INSERTION LOSS	DECIBELS	18. RECEIVE ACCURACY	PERCENT
9. TRANSMIT MAXIMUM ATTENUATION	DECIBELS	19. RECEIVE INSERTION LOSS	DECIBELS
10. TRANSMIT ATTENUATION ACCURACY	DECIBELS	20. IMPEDANCE BALANCE	DECIBELS
11. TRANSMIT ATTENUATION RESOLUTION	DECIBELS	21. IMPEDANCE BALANCE ACCURACY	PERCENT
12. RECEIVE MINIMUM FREQUENCY	HERTZ		
A. 135 OHM INPUT/OUTPUT IMPEDANCE		J. WE 310 JACK	
B. 600 OHM INPUT/OUTPUT IMPEDANCE		K. BNC CONNECTORS	
C. 900 OHM INPUT/OUTPUT IMPEDANCE		L. THREE-TERMINAL CONNECTORS	
D. 10 KILOHM BRIDGING RECEIVE IMPEDANCE		M. INTERNAL BATTERY POWER	
E. dB RECEIVE METER SCALE		N. 50 HZ POWER	
F. VOLTS RECEIVE METER SCALE		O. 60 HZ POWER	
G. MIRROR-BACK RECEIVE METER SCALE		P. 400 HZ POWER	
H. WE 241 JACK		Q. 115V AC	
I. WE 309 JACK		R. 230V AC	

## NOTES:

1,12. A minimum frequency of dc shall be indicated by a zero.

4,14. The total variation of amplitude across the frequency band expressed as a ratio between minimum and maximum levels. For example, a requirement for +/- 5 dB flatness from a reference level shall be recorded as 10 dB.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: TEST SET, WHITE NOISE, TELECOM  
ETE GENERIC CODE: TSN

PARAMETER	UNITS	PARAMETER	UNITS
1. MINIMUM FREQUENCY	HERTZ	15. BEST RECEIVER FREQUENCY ACCURACY	PERCENT
2. MAXIMUM FREQUENCY	HERTZ	16. RECEIVER BANDWIDTH	HERTZ
3. BEST FREQUENCY ACCURACY	PERCENT	17. RECEIVER SENSITIVITY	dBm
4. MINIMUM NOISE POWER OUTPUT	dBm	18. MAXIMUM INPUT LEVEL	dBm
5. MAXIMUM NOISE POWER OUTPUT	dBm	19. MINIMUM INPUT LEVEL	dBm
6. NOISE OUTPUT LEVEL ACCURACY	PERCENT	20. INPUT ATTENUATOR RANGE	DECIBELS
7. OUTPUT FLATNESS	DECIBELS	21. INPUT ATTENUATOR STEPS	NUMBER
8. OUTPUT ATTENUATOR RANGE	DECIBELS	22. BEST INPUT ATTENUATOR ACCURACY	DECIBELS
9. OUTPUT ATTENUATOR STEPS	NUMBER	23. NOISE FIGURE MEASURING RANGE	DECIBELS
10. BEST OUTPUT ATTENUATOR ACCURACY	PERCENT	24. MEASUREMENT ACCURACY	DECIBELS
11. GENERATOR PEAK/RMS RATIO	DECIBELS	25. STANDARD NOISE SOURCE SOURCE LEVEL	WATTS
12. OUTPUT IMPEDANCE	OHMS	26. NOISE SOURCE EXCESS NOISE	DECIBELS
13. MINIMUM RECEIVER FREQUENCY	HERTZ	27. RETURN LOSS	DECIBELS
14. MAXIMUM RECEIVER FREQUENCY	HERTZ	28. INPUT IMPEDANCE	OHMS
A. AUTO LEVEL CONTROL		J. IEEE/488	
B. STANDARD NOISE SOURCE		K. EXTERNAL OSCILLATOR INPUT	
C. RECORDER OUTPUT		L. INTERNAL BATTERY POWER	
D. RECORDER CALIBRATION		M. 50 HZ POWER	
E. LO-PASS FILTERS		N. 60 HZ POWER	
F. HI-PASS FILTERS		O. 400 HZ POWER	
G. BANDSTOP FILTERS		P. 115V AC	
H. BANDPASS FILTERS		Q. 230V AC	
I. SELECTABLE FILTERS			

NOTES:

1,13. A minimum frequency of dc shall be indicated by a zero.

7. The total allowed variation of output amplitude across the frequency band expressed as a ratio between minimum and maximum levels. For example, a requirement for +/- 5 dB flatness from a reference level shall be recorded as 10 dB.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: TESTER, BIT ERROR RATE, TELECOM  
ETE GENERIC CODE: TSE

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM SPEED	BAUDS	7. MAXIMUM OPERATING INPUT	VOLTS
2. MAXIMUM SPEED	BAUDS	8. BEST INPUT VOLTAGE ACCURACY	PERCENT
3. BEST BAUD SPEED ACCURACY	PERCENT	9. MAXIMUM INPUT WITHOUT DAMAGE	VOLTS
4. MAXIMUM ERROR PATTERN	BITS	10. RECORDER OUTPUT IMPEDANCE	OHMS
5. MAXIMUM BIT ERROR RATE	NUMBER	11. NUMBER OF READOUT DIGITS	NUMBER
6. MINIMUM INPUT VOLTAGE	VOLTS		
A. CRYSTAL CONTROLLED		K. RTS SIGNAL	
B. PSEUDORANDOM		L. DTR SIGNAL	
C. FULL DUPLEX		M. RS-232 CONNECTORS	
D. 1:1 DOT CYCLE		N. MONITOR OUTPUT	
E. STEADY MARK		O. INTERNAL BATTERY POWER	
F. STEADY SPACE		P. 50 HZ POWER	
G. SYNC LOSS INDICATOR		Q. 60 HZ POWER	
H. SEND ERROR INJECTION		R. 400 HZ POWER	
I. RECEIVE ERROR INJECTION		S. 115V AC	
J. AUTO RANGE		T. 230V AC	

## NOTES:

C. An "X" shall be entered if the ETE is required to operate simultaneously in both sending and receiving functions.

H,I. An "X" shall be entered if the ETE is required to permit insertion of single bit errors into either the transmit or receive paths.

K. Request-to-send signal.

L. Data-terminal-ready signal.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: TESTER, RELAY, TELECOM  
ETE GENERIC CODE: TS4

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MAXIMUM OPERATING CURRENT	AMPERES	8. MAXIMUM DC METER SCALE	AMPERES
2. MAXIMUM BIAS TEST	PERCENT	9. BEST DC METER ACCURACY	PERCENT
3. MAXIMUM CONTACT BREAK TEST	PERCENT	10. MINIMUM AC METER SCALE	AMPERES
4. INSULATION RESISTANCE TEST; HIPOT	VOLTS	11. MAXIMUM AC METER SCALE	AMPERES
5. MINIMUM OSCILLOSCOPE OUTPUT	VOLTS	12. BEST AC METER ACCURACY	PERCENT
6. MAXIMUM OSCILLOSCOPE OUTPUT	VOLTS	13. NUMBER OF SOURCE DRIVE VOLTAGES	NUMBER
7. MINIMUM DC METER SCALE	AMPERES		
A. SIGMA 7Z ADAPTER		J. SINGLE-COIL TESTING	
B. SIGMA 72Y ADAPTER		K. EXTERNAL DRIVE	
C. SIGMA 72Z ADAPTER		L. OCTAL SOCKET	
D. SIGMA 7Y ADAPTER		M. INTERNAL BATTERY POWER	
E. WESTERN ELECTRIC 255A ADAPTER		N. 50 HZ POWER	
F. WESTERN ELECTRIC 215 ADAPTER		O. 60 HZ POWER	
G. WESTERN UNION 202 ADAPTER		P. 400 HZ POWER	
H. WESTERN UNION 203 ADAPTER		Q. 115V AC	
I. DUAL-COIL TESTING		R. 230V AC	

NOTES

A,B,C,D,E,F,G,H. An "X" shall indicate the required adapter.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

EIE NOUN NAME: VOLTMETER, ANALOG, ELECTRONIC (INCLUDES AC, DC, RF, AND TRUE RMS VOLTMETER)  
EIE GENERIC CODE: VO1

PARAMETER	UNITS	PARAMETER	UNITS
1. MAXIMUM DC VOLTS	VOLTS	10. MAXIMUM FREQUENCY	HERTZ
2. MINIMUM DC VOLTS	VOLTS	11. MINIMUM FREQUENCY	HERTZ
3. BEST DC VOLTAGE ACCURACY	PERCENT	12. CREST FACTOR	NUMBER
4. INPUT DC RESISTANCE	OHMS	13. MAXIMUM VSWR	NUMBER
5. MAXIMUM AC VOLTS	VOLTS	14. COMMON MODE REJECTION RATIO	DECIBELS
6. MINIMUM AC VOLTS	VOLTS	15. MAXIMUM INPUT WITHOUT DAMAGE	VOLTS DC
7. BEST AC VOLTAGE ACCURACY	PERCENT	16. MAXIMUM INPUT WITHOUT DAMAGE	VOLTS PEAK- PEAK
8. MAXIMUM AC INPUT RESISTANCE	OHMS	17. MAXIMUM DC RECORDER OUTPUT	VOLTS
9. MINIMUM AC INPUT CAPACITANCE	FARADS		
A. RF VOLTMETER		I. EXTERNAL DC POWER	
G. TRUE RMS VOLTMETER		J. IEEE/488	
C. DIFFERENTIAL (POTENTIOMETRIC) MODE		K. INTERNAL BATTERY POWER	
D. DIGITAL READOUT		L. 50 HZ POWER	
E. dB READOUT		M. 60 HZ POWER	
F. INTERNAL AMPLIFIER OUTPUT		N. 400 HZ POWER	
G. AC-DC CONVERTER OUTPUT		O. 115V AC	
H. INPUT ISOLATED FROM GROUND		P. 230V AC	

## NOTES:

4. The highest input resistance value required.

12. A ratio of peak to rms volts at full scale. Degrading of the crest factor is inversely proportional to the meter deflection. The crest factor value required of the ETE shall be entered.

14. The capability of the ETE to reject a signal applied simultaneously and in phase to both input terminals.

C. This applies to ETE with potentiometric operation where an internal known voltage is applied in opposition to the input voltage and is adjusted until a null or zero difference is obtained. This does not designate that the input is to be isolated from and balanced to ground. If differential mode is required, an "X" shall be entered.

D. Digital readout is a method of indicating the measured voltage and may be in the form of an electronic digital indicator or knob indications such as those used on certain differential voltmeters. An "X" shall indicate a requirement for digital readout.

H. An "X" shall be entered if the ETE input is required to be isolated from ground. Breaking of a ground strap between a low terminal and ground does not always isolate the input.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: VOLTMETER, DIFFERENTIAL (INCLUDES AC/DC, DC, AND TRUE RMS DIFFERENTIAL VOLTMETER)  
ETE GENERIC CODE: VO2

PARAMETER	UNITS	PARAMETER	UNITS
1. MAXIMUM DC VOLTS	VOLTS	15. MAXIMUM AC NULL RANGE	VOLTS
2. MINIMUM DC VOLTS	VOLTS	16. MINIMUM AC NULL RANGE	VOLTS
3. BEST DC VOLTAGE ACCURACY	PERCENT	17. BEST AC NULL RANGE ACCURACY	PERCENT OF INPUT
4. HIGH-VOLTAGE PROBE MAXIMUM DC INPUT	VOLTS	18. BEST AC NULL RANGE RESOLUTION	PARTS/MILLION
5. BEST DC VOLTAGE RESOLUTION	VOLTS	19. BEST AC NULL RANGE RESOLUTION	VOLTS
6. MAXIMUM AC VOLTS	VOLTS	20. MAXIMUM FREQUENCY	HERTZ
7. MINIMUM AC VOLTS	VOLTS	21. MINIMUM FREQUENCY	HERTZ
8. BEST AC VOLTAGE ACCURACY	PERCENT	22. INPUT DC RESISTANCE	OHMS
9. BEST AC VOLTAGE RESOLUTION	VOLTS	23. MAXIMUM AC INPUT RESISTANCE	OHMS
10. MAXIMUM DC NULL RANGE	VOLTS	24. MINIMUM AC INPUT CAPACITANCE	FARADS
11. MINIMUM DC NULL RANGE	VOLTS	25. CREST FACTOR	NUMBER
12. BEST DC NULL RANGE ACCURACY	PERCENT	26. COMMON MODE REJECTION RATIO	DECIBELS
13. BEST DC NULL RANGE RESOLUTION	PARTS/MILLION	27. MAXIMUM DC RECORDER OUTPUT	VOLTS
14. BEST DC NULL RANGE RESOLUTION	VOLTS		
A. TRUE RMS		G. INTERNAL BATTERY POWER	
B. DIFFERENTIAL (POTENTIOMETRIC) MODE		H. 50 HZ POWER	
C. DIGITAL READOUT		I. 60 HZ POWER	
D. dB READOUT		J. 400 HZ POWER	
E. INPUT ISOLATED FROM GROUND		K. 115V AC	
F. IEEE/488		L. 230V AC	

## NOTES:

1,2,3,6,7,8. This parameter applies to the ETE when used as a conventional voltmeter and not when used in the potentiometric mode.

10,11,12,13,14,15,16,17,18,19. This parameter applies to the ETE when used in the potentiometric mode.

22,23. The highest input resistance required.

25. Crest factor is a ratio of peak to rms volts at full scale. Degrading of the crest factor is inversely proportional to the meter deflection. The crest factor value required of the ETE shall be entered.

26. The capability of the ETE to reject a signal applied simultaneously and in phase to both input terminals.

B. This applies to ETE with potentiometric operation where an internal known voltage is applied in opposition to the input voltage and is adjusted until a null or zero difference is obtained. This does not designate that the input is to be isolated from and balanced to ground. If differential mode is required, an "X" shall be entered.

C. Digital readout is a method of indicating the measured voltage and may be in the form of an electronic digital indicator or knob indications such as those on certain differential voltmeters. An "X" shall indicate a requirement for digital readout.

E. An "X" shall be entered if the ETE input is required to be isolated from ground. Breaking of a ground strap between a low terminal and ground does not always isolate the input.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: VOLTMETER, FREQUENCY SELECTIVE  
ETE GENERIC CODE: V06

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM FREQUENCY OF SELECTIVE MODE: WIDE BAND	HERTZ	10. BANDPASS OF NARROW-BAND MODE	HERTZ
2. MINIMUM FREQUENCY OF SELECTIVE MODE: WIDE BAND	VOLTS	11. MAXIMUM SENSITIVITY OF SELECTIVE MODE	VOLTS
3. MINIMUM FREQUENCY OF SELECTIVE MODE: NARROW BAND	HERTZ	12. MINIMUM SENSITIVITY OF SELECTIVE MODE	VOLTS
4. MAXIMUM FREQUENCY OF SELECTIVE MODE: NARROW BAND	HERTZ	13. MAXIMUM SENSITIVITY OF FLAT MODE	VOLTS
5. MINIMUM FREQUENCY OF FLAT MODE	HERTZ	14. MINIMUM SENSITIVITY OF FLAT MODE	VOLTS
6. MAXIMUM FREQUENCY OF FLAT MODE	HERTZ	15. BEST MEASUREMENT ACCURACY	DECIBELS
7. BEST FREQUENCY ACCURACY	HERTZ	16. BEST AMPLITUDE DISPLAY RESOLUTION	dBm
8. BEST FREQUENCY DISPLAY RESOLUTION	HERTZ	17. BEST IMAGE REJECTION	dBc
9. BANDPASS OF WIDE-BAND MODE	HERTZ	18. WORST HARMONIC DISTORTION	dBc
A. DIGITAL FREQUENCY DISPLAY		19. WORST INTERMODULATION DISTORTION	dBc
B. DIGITAL AMPLITUDE DISPLAY		20. MINIMUM INPUT IMPEDANCE	OHMS
C. RECORDER OUTPUT		21. MAXIMUM INPUT IMPEDANCE	OHMS
D. PHASE-LOCK CAPABILITY			
E. AUTOMATIC FREQUENCY CONTROL		H. INTERNAL BATTERY POWER	
F. CARRIER REINSERTION		I. 50 HZ POWER	
G. IEEE/488		J. 60 HZ POWER	
		K. 400 HZ POWER	
		L. 115V AC	
		M. 230V AC	

## NOTES:

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: VOLTMETER, PHASE ANGLE  
ETE GENERIC CODE: V08

PARAMETER	UNITS	PARAMETER	UNITS
1. MAXIMUM SIGNAL VOLTAGE	VOLTS	13. PHASE-SENSITIVE MODE PHASE DIAL ACCURACY	DEGREES
2. MINIMUM SIGNAL VOLTAGE	VOLTS	14. PHASE RESOLUTION	DEGREES
3. MAXIMUM REFERENCE VOLTAGE	VOLTS	15. PHASE-SENSITIVE BANDWIDTH	PERCENT
4. MINIMUM REFERENCE VOLTAGE	VOLTS	16. HARMONIC REJECTION	DECIBELS
5. TOTAL MODE BEST VOLTAGE ACCURACY	PERCENT	17. SIGNAL INPUT RESISTANCE	OHMS
6. VOLTAGE DISPLAY BEST RESOLUTION	VOLTS	18. MAXIMUM DC INPUT WITHOUT DAMAGE	VOLTS
7. TOTAL MODE MAXIMUM FREQUENCY	HERTZ	19. MAXIMUM RMS INPUT WITHOUT DAMAGE	VOLTS
8. TOTAL MODE MINIMUM FREQUENCY	HERTZ	20. SIGNAL INPUT CAPACITANCE	FARADS
9. PHASE-SENSITIVE MODE MAXIMUM FREQUENCY	HERTZ	21. REFERENCE INPUT RESISTANCE	OHMS
10. PHASE-SENSITIVE MODE MINIMUM FREQUENCY	HERTZ	22. REFERENCE INPUT CAPACITANCE	FARADS
11. PHASE-SENSITIVE MODE VOLTMETER ACCURACY	PERCENT	23. MAXIMUM ALLOWABLE DC INPUT	VOLTS
12. PHASE-SENSITIVE MODE PHASE METER ACCURACY	PERCENT		
A. REFERENCE ISOLATED		H. X-Y OUTPUT	
B. NUMBER OF FREQUENCY SELECTIONS AVAILABLE	NUMBER	I. IEEE/488	
C. SWITCHABLE INPUT CHANNEL		J. INTERNAL BATTERY POWER	
D. SWEEPABLE FREQUENCY		K. 50 HZ POWER	
E. SWITCHABLE FREQUENCY		L. 60 HZ POWER	
F. OVERLOAD INDICATOR		M. 400 HZ POWER	
G. EXTERNAL FILTERS		N. 115V AC	
		O. 230V AC	

## NOTES:

5,7,8. An ETE item has total mode capability if it can be used as a normal voltmeter. If applicable, the total mode values required of the ETE shall be entered.

9,10,11,12,13,14,15. An ETE item is phase sensitive if it can be used as a phase measuring meter. If applicable, the phase sensitivity values required of the ETE shall be entered.

B. The total number of fixed frequencies required in the phase sensitive mode of the ETE shall be entered.



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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: VOLTMETER, VECTOR  
ETE GENERIC CODE: V04

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MAXIMUM FREQUENCY	HERTZ	11. BEST PHASE RESOLUTION	DEGREES
2. MINIMUM FREQUENCY	HERTZ	12. PHASE METER OFFSET	DEGREES
3. CHANNEL A VOLTAGE RANGE MAXIMUM	VOLTS	13. PHASE ACCURACY	DEGREES
4. CHANNEL A VOLTAGE RANGE MINIMUM	VOLTS	14. BANDWIDTH	HERTZ
5. CHANNEL B VOLTAGE RANGE MAXIMUM	VOLTS	15. MAXIMUM CHANNEL ISOLATION	DECIBELS
6. CHANNEL B VOLTAGE RANGE MINIMUM	VOLTS	16. MAXIMUM RESIDUAL NOISE	VOLTS
7. MAXIMUM VOLTMETER RMS FULL-SCALE RANGE	VOLTS	17. MAXIMUM AC INPUT WITHOUT DAMAGE	VOLTS-PEAK
8. MINIMUM VOLTMETER RMS FULL-SCALE RANGE	VOLTS	18. MAXIMUM DC INPUT WITHOUT DAMAGE	VOLTS
9. BEST VOLTMETER ACCURACY	PERCENT	19. INPUT RESISTANCE	OHMS
10. MAXIMUM PHASE RANGE	DEGREES	20. INPUT CAPACITANCE	FARADS
A. dB METER SCALE		H. IF SIGNAL OUTPUT	
B. LINEAR dB METER SCALE		I. INTERNAL BATTERY POWER	
C. RMS VOLTAGE METER SCALE		J. 50 HZ POWER	
D. STEP ATTENUATOR		K. 60 HZ POWER	
E. PHASE LOCK		L. 400 HZ POWER	
F. IEEE/488		M. 115V AC	
G. RECORDER OUTPUT		N. 230V AC	

## NOTES:

2. A minimum frequency of dc shall be indicated by a zero.

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#### APPENDIX C

##### WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT SUPPORT ITEM PARAMETERS

This Appendix contains information related to DOD-STD-2121 (NAVY).  
Appendix C is a mandatory part of this standard.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT SUPPORT ITEM PARAMETERS  
ETE NOUN NAME: ADAPTER, COAXIAL, SET  
ETE GENERIC CODE: AD1

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. NOMINAL IMPEDANCE	OHMS	3. TEE CONNECTOR	
2. COMMON END CONNECTOR	TYPE	4. 90 DEGREE RIGHT ANGLE LINE SECTION	
A. COMMON END TO TYPE BNC (MALE)		I. COMMON END TO TYPE SMA (MALE)	
B. COMMON END TO TYPE BNC (FEMALE)		J. COMMON END TO TYPE SMA (FEMALE)	
C. COMMON END TO TYPE C (MALE)		K. COMMON END TO TYPE TNC (MALE)	
D. COMMON END TO TYPE C (FEMALE)		L. COMMON END TO TYPE TNC (FEMALE)	
E. COMMON END TO TYPE HN (MALE)		M. COMMON END TO TYPE UHF (MALE)	
F. COMMON END TO TYPE HN (FEMALE)		N. COMMON END TO TYPE UHF (FEMALE)	
G. COMMON END TO TYPE N (MALE)		O. COMMON END TO TYPE BANANA	
H. COMMON END TO TYPE N (FEMALE)		P. CONTAINER	

NOTES:

1. The nominal impedance required of the adapters under normal conditions.
2. The end connector to be commonly shared by all adapters in the sets.
3. If a tee connector is required in the kit, an "X" shall be entered.
4. If the kit is required to have a 90 degree right-angle line section, and "X" shall be entered.
- P. If an enclosure for the adapters is to be included with the set, an "X" shall be entered.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT SUPPORT ITEM PARAMETERS

ETE NOUN NAME: ADAPTER, WAVEGUIDE TO COAXIAL  
ETE GENERIC CODE: AD3

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM FREQUENCY	HERTZ	4. EIA WR#	NUMBER
2. MAXIMUM FREQUENCY	HERTZ	5. FLANGE UG-( )/U	NUMBER
3. VSWR	NUMBER		
A. N CONNECTOR		F. MALE CONNECTOR	
B. BNC CONNECTOR		G. FEMALE CONNECTOR	
C. APC-7 CONNECTOR		H. SEXLESS	
D. APC-3.5 CONNECTOR		I. CHOKE	
E. SMA CONNECTOR		J. COVER	

## NOTES:

3. The worst-case VSWR to be allowed of the ETE shall be entered.

4. Electronics Industries Association Waveguide Rigid Number.

5. The waveguide flange JAN designation number. Only the number enclosed in the parentheses shall be entered (For example, "585" would be entered to indicate "UG-585/U.")

H. A sexless coaxial connector, which will mate with any connector of the same type.

I, J. The type of waveguide flange required shall be entered.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT SUPPORT ITEM PARAMETERS

ETE NOUN NAME: ADAPTER, WAVEGUIDE TO WAVEGUIDE  
ETE GENERIC CODE: AD4

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM FREQUENCY	HERTZ	5. LARGE FLANGE UG-( )/U	NUMBER
2. MAXIMUM FREQUENCY	HERTZ	6. SMALL FLANGE EIA WR#	NUMBER
3. VSWR	NUMBER	7. SMALL FLANGE UG-( )/U	NUMBER
4. LARGE FLANGE EIA WR#	NUMBER		
A. TAPERED WAVEGUIDE		E. LARGE COVER	
B. STEP TRANSITION WAVEGUIDE		F. SMALL CHOKE	
C. CIRCULAR TO RECTANGLE WAVEGUIDE		G. SMALL COVER	
D. LARGE CHOKE			

NOTES:

1. The worst-case VSWR to be allowed of the ETE shall be entered.
4. The Electronic Industries Association Waveguide Rigid Number required for the large end of the adapter.
5. The waveguide JAN designation number required for the large end of the adapter. Only the number enclosed in the parentheses shall be entered. (For example, "585" would be entered to indicate "UG-585/U.")
6. The Electronics Industries Association Waveguide Rigid number required for the small end of the adapter.
7. The waveguide JAN signature number required for the small end of the adapter. Only the number enclosed in the parentheses shall be entered. (For example, "585" shall be entered to indicate "UG-585/U.")
- A. If the adapter is to be a tapered waveguide, an "X" shall be entered.
- B. If the adapter is to be of the step transition type, an "X" shall be entered.
- C. If the adapter is to be of the type that adapts a circular flange to a rectangular one, an "X" shall be entered.
- D,E. An "X" shall indicate whether the large end of the adapter is required to be a choke or a cover.
- F,G. An "X" shall indicate whether the small end of the adapter is required to be a choke or a cover.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT SUPPORT ITEM PARAMETERS

ETE NOUN NAME: ATTENUATOR, FIXED, COAXIAL  
ETE GENERIC CODE: AT1

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. NOMINAL ATTENUATION	DECIBELS	5. VSWR	NUMBER
2. ATTENUATION ACCURACY	DECIBELS	6. NOMINAL IMPEDANCE	OHMS
3. MINIMUM FREQUENCY	HERTZ	7. MAXIMUM AVERAGE INPUT POWER	WATTS
4. MAXIMUM FREQUENCY	HERTZ	8. MAXIMUM PEAK INPUT POWER	WATTS
A. N CONNECTOR		F. INC CONNECTOR	
B. BNC CONNECTOR		G. M-M CONNECTOR	
C. APC-7 CONNECTOR		H. M-F CONNECTOR	
D. SMA CONNECTOR		I. F-F CONNECTOR	
E. GR874 CONNECTOR		J. SEXLESS CONNECTOR	

## NOTES:

3. A minimum frequency of dc shall be indicated by a zero.

5. The worst-case VSWR to be allowed of the ETE shall be entered.

G. Male-to-male connector.

H. Male-to-female connector.

I. Female-to-female connector.

J. A sexless connector is a type that mates with any connector of the same type.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT SUPPORT ITEM PARAMETERS

ETE NOUN NAME: ATTENUATOR, FIXED, COAXIAL, SET  
ETE GENERIC CODE: AT2

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. SMALLEST ATTENUATION VALUE	DECIBELS	7. MAXIMUM AVERAGE POWER	WATTS
2. LARGEST ATTENUATION VALUE	DECIBELS	8. MAXIMUM PEAK POWER	WATTS
3. TOTAL ATTENUATION OF SET	DECIBELS	9. NOMINAL IMPEDANCE	OHMS
4. ATTENUATION ACCURACY	DECIBELS	10. VSWR	NUMBER
5. MINIMUM FREQUENCY	HERTZ	11. NUMBER OF ATTENUATORS IN SET	NUMBER
6. MAXIMUM FREQUENCY	HERTZ		
A. 1.0 DECIBEL ATTENUATOR		X. APC-3.5 CONNECTOR	
B. 2.0 DECIBEL ATTENUATOR		L. BNC CONNECTOR	
C. 3.0 DECIBEL ATTENUATOR		M. SMA CONNECTOR	
D. 6.0 DECIBEL ATTENUATOR		N. TNC CONNECTOR	
E. 10 DECIBEL ATTENUATOR		O. GR874 CONNECTOR	
F. 20 DECIBEL ATTENUATOR		P. M-M CONNECTOR	
G. 30 DECIBEL ATTENUATOR		Q. M-F CONNECTOR	
H. 40 DECIBEL ATTENUATOR		R. F-F CONNECTOR	
I. N CONNECTOR		S. SEXLESS CONNECTOR	
J. APC-7 CONNECTOR		T. CASE TO BE INCLUDED	

NOTES:

1. The value of the lowest-decibel-value attenuator required in the set.
2. The value of the highest-decibel-value attenuator required in the set.
3. The required value of all attenuation decibel values in the set added together.
5. A minimum frequency of dc shall be indicated by a zero.
10. The worst-case VSWR to be allowed of the ETE shall be entered.

A,B,C,D,E,F,G,H. If an individual attenuator with the indicated decibel value is required in the set, an "X" shall be entered.

P. Male-to-male connector.

Q. Male-to-female connector.

R. Female-to-female connector.

S. A sexless connector is one that will mate with any connector of the same type.

T. If the attenuators are to be housed in a carrying or storage case, an "X" shall be entered.



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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT SUPPORT ITEM PARAMETERS

ETE NOUN NAME: ATTENUATOR, FIXED, WAVEGUIDE  
ETE GENERIC CODE: AT3

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. NOMINAL ATTENUATION	DECIBELS	6. MAXIMUM FREQUENCY SENSITIVITY	DECIBELS
2. ATTENUATION ACCURACY	DECIBELS	7. MAXIMUM AVERAGE POWER	WATTS
3. MINIMUM FREQUENCY	HERTZ	8. FLANGE E.I.A. W.R.#	NUMBER
4. MAXIMUM FREQUENCY	HERTZ	9. FLANGE UG( )/U	NUMBER
5. VSWR	NUMBER		
A. RECTANGULAR FLANGE		D. COVER	
B. CIRCULAR FLANGE		E. CORRECTION CHARTS	
C. CHOKE			

## NOTES:

8. Electronics Industries Association Waveguide Ridgid Number.

9. The waveguide flange JAN designation number. Only the number shall be entered. (For example, "585" would be entered to indicate "UG-585/U.")

C., D. An "X" shall be entered for the type of waveguide flange required on the ETE.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT SUPPORT ITEM PARAMETERS

ETE NOUN NAME: ATTENUATOR, STEP  
ETE GENERIC CODE: AT4

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM ATTENUATION SETTING	DECIBELS	8. MAXIMUM PEAK INPUT POWER	WATTS
2. MAXIMUM ATTENUATION SETTING	DECIBELS	9. NOMINAL IMPEDANCE	OHMS
3. ATTENUATION ACCURACY	DECIBELS	10. VSWR	NUMBER
4. INSERTION LOSS AT ZERO	DECIBELS	11. SWITCH REPEATABILITY	DECIBELS
5. MINIMUM FREQUENCY	HERTZ	12. SWITCH LIFE	NUMBER
6. MAXIMUM FREQUENCY	HERTZ	13. NUMBER OF SECTIONS	NUMBER
7. MAXIMUM AVERAGE INPUT POWER	WATTS		
A. 0.1 DECIBELS STEPS		M. F-F CONNECTOR	
B. 1.0 DECIBELS STEPS		N. SEXLESS CONNECTOR	
C. 10 DECIBEL STEPS		O. MANUAL SWITCH	
D. N CONNECTOR		P. MOTOR DRIVEN	
E. BNC CONNECTOR		Q. PROGRAMMABLE	
F. APC-7 CONNECTOR		R. INTERNAL BATTERY POWER	
G. APC-3 CONNECTOR		S. 50 HZ POWER	
H. SMA CONNECTOR		T. 60 HZ POWER	
I. GR874 CONNECTOR		U. 400 HZ POWER	
J. BINDING POST		V. 115V AC	
K. M-M CONNECTOR		W. 230V AC	
L. M-F CONNECTOR			

NOTES:

1. The minimum attenuation value to be set on the ETE excluding the zero setting.
  2. The maximum attenuation value to be set on the ETE.
  4. The permitted insertion loss of the ETE when all sections are set to zero.
  5. A minimum frequency of dc shall be indicated by a zero.
  10. The worst-case VSWR to be allowed of the ETE shall be entered.
  11. The capability of the ETE to repeat the same value of actual attenuation when stepped to another setting and returned to the original setting.
  12. The number of switching operations allowed before failure.
  13. The number of separate switched, turrets, dial, etc. required. This is not the number of individual attenuators in a turret.
- A,B,C. If the ETE is required to be varied by this amount in individual steps, an "X" shall be entered.
- K. Male-to-male connector.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT SUPPORT ITEM PARAMETERS

ETE NOUN NAME: ATTENUATOR, STEP  
ETE GENERIC CODE: AT4

NOTES:

- L. Male-to-female connector.
- M. Female-to-female connector.
- N. These are connectors that will mate with any connector of the same type.
- O. If the ETE is required to step manually, an "X" shall be entered.
- P. If the ETE is to be driven by a motor to change settings, an "X" shall be entered.
- Q. Remotely controlled stepping of the ETE by voltage, BCD, IEEE Bus, etc.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT SUPPORT ITEM PARAMETERS

ETE NOUN NAME: ATTENUATOR, VARIABLE, COAXIAL  
ETE GENERIC CODE: AT6

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM ATTENUATION SETTING	DECIBELS	6. MAXIMUM FREQUENCY	HERTZ
2. MAXIMUM ATTENUATION SETTING	DECIBELS	7. VSWR	NUMBER
3. INSERTION LOSS AT ZERO	DECIBELS	8. MAXIMUM AVERAGE INPUT POWER	WATTS
4. ATTENUATION ACCURACY	DECIBELS	9. MAXIMUM PEAK INPUT POWER	WATTS
5. MINIMUM FREQUENCY	HERTZ		
A. N CONNECTOR		G. F-F CONNECTOR	
B. BNC CONNECTOR		H. M-F CONNECTOR	
C. TNC CONNECTOR		I. DIRECT READING	
D. APC-7 CONNECTOR		J. SCREWDRIVER ADJUSTMENT	
E. SMA CONNECTOR		K. CORRECTION CHART	
F. M-M CONNECTOR			

NOTES:

1. The minimum attenuation value required excluding the zero setting.
2. The maximum attenuation value required.
5. A minimum frequency of dc shall be indicated by a zero.
7. The worst-case VSWR to be allowed of the ETE shall be entered.
- F. Male-to-male connectors.
- G. Female-to-female connectors.
- H. Male-to-female connectors.
- I. If a direct-reading dial is required, an "X" shall be entered.
- J. If a screwdriver adjustment on the attenuator is required, an "X" shall be entered.
- K. If a correction chart is required for the attenuator, an "X" shall be entered.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT SUPPORT ITEM PARAMETERS

ETE NOUN NAME: ATTENUATOR, VARIABLE, WAVEGUIDE  
ETE GENERIC CODE: AT7

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM ATTENUATION SETTING	DECIBELS	6. MAXIMUM FREQUENCY	HERTZ
2. MAXIMUM ATTENUATION SETTING	DECIBELS	7. VSWR	NUMBER
3. INSERTION LOSS AT ZERO SETTING	DECIBELS	8. MAXIMUM INPUT POWER	WATTS
4. ATTENUATION ACCURACY	DECIBELS	9. EIA WR#	NUMBER
5. MINIMUM FREQUENCY	HERTZ	10. FLANGE UG- ( )/U	NUMBER
A. CHOKE		C. DIRECT READING	
B. COVER		D. CORRECTION CHARTS	

NOTES:

1. The minimum attenuation value required.
2. The maximum insertion loss allowed when all sections are set to zero.
3. The maximum insertion loss allowed when all sections are set to zero.
7. The worst-case VSWR to be allowed of the ETE shall be entered.
9. Electronic Industries Association Waveguide Rigid Number.
10. The waveguide flange JAN designation number. Only the number is to be entered. (For example, "UG-585/U would be indicated by "585.")
- A,B. The type of waveguide flange required.
- C. If the ETE is to have a readout dial marked to indicated the attenuation value, an "X" shall be entered.
- D. If a correction chart is to be supplied with those ETE that are not direct reading, an "X" shall be entered.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT SUPPORT ITEM PARAMETERS

ETE NOUN NAME: CAMERA, OSCILLOSCOPE  
ETE GENERIC CODE: CS1

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. LENS SPEED	NUMBER	7. NARROWEST "F" STOP	NUMBER
2. SHUTTER SPEED (FASTEST)	SECONDS	8. LENS COVERAGE (WIDTH)	CENTIMETERS
3. SHUTTER SPEED (SLOWEST)	SECONDS	9. LENS COVERAGE (HEIGHT)	CENTIMETERS
4. MAGNIFICATION	NUMBER	10. FILM SPEED ASA RATING (FASTEST)	NUMBER
5. LENS SIZE	MILLIMETERS	11. FILM SPEED ASA RATING (SLOWEST)	NUMBER
6. WIDEST "F" STOP	NUMBER		
A. MECHANICAL SHUTTER		E. LIFT-OFF MOUNTING	
B. ELECTRONIC SHUTTER		F. SWING-AWAY HINGING	
C. INTERCHANGEABLE LENSES		G. SELF DEVELOPING	
D. INTERCHANGEABLE FILM BACK			

NOTES:

1. A measure of the amount of light a lens will pass. Measured in "F" stops, it is equal to the focal length divided by the diameter of the lens.

2,3. The minimum (item 2)/maximum (item 3) speed, measured in seconds, required of the camera shutter.

A. If the shutter is required to be mechanically operated, an "X" shall be entered.

B. If the shutter is required to be electronically operated, an "X" shall be entered.

F. If swing-away hinging is required with the camera, an "X" shall be entered.

G. If the film is required to have self-developing (instant) capability, an "X" shall be entered.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: CAPACITOR, DECADE  
ETE GENERIC CODE: CF1

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM CAPACITANCE SETTING	FARADS	7. DISSIPATION FACTOR	NUMBER
2. MAXIMUM CAPACITANCE SETTING	FARADS	8. MINIMUM FREQUENCY	HERTZ
3. CAPACITANCE ACCURACY	PERCENT	9. MAXIMUM FREQUENCY	HERTZ
4. CAPACITANCE AT ZERO SETTING	FARADS	10. MAXIMUM DC VOLTAGE	VOLTS
5. TEMPERATURE COEFFICIENT OF CAPACITANCE	PPM/DEGREE CENTIGRADE	11. MAXIMUM AC VOLTAGE	VOLTS
6. STABILITY	PERCENT/YEAR	12. RANGE SWITCHES	NUMBER
A. BINDING POSTS		E. SILVERED MICA	
B. GR874 CONNECTOR		F. POLYSTYRENE	
C. ROTARY SWITCH		G. PAPER	
D. TOGGLE SWITCH		H. OIL	

## NOTES:

1. The minimum capacitance value required.
  2. The maximum capacitance value required.
  4. The value of capacitance to be allowed between the terminals when all decades are set to zero.
  5. The allowable change in capacitance when the ambient temperature changes by 1 degree Centigrade.
  6. The ability of capacitor, measured in percentage per year, to maintain its nominal operating characteristics after being subjected to changes in temperature, environment, current, and time.
  7. The ratio of energy dissipated to energy stored in a capacitor for one cycle, known as "D."
  8. A minimum frequency of dc shall be indicated by zero.
- C,D. An "X" shall indicate the type of switch required.
- E,F,G,H. An "X" shall indicate the type of dielectrics required in the capacitors.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT SUPPORT ITEM PARAMETERS

ETE NGUN NAME: CONVERTER, FREQUENCY, AC  
ETE GENERIC CODE: CF1

PARAMETER	UNITS	PARAMETER	UNITS
1. MINIMUM INPUT FREQUENCY	HERTZ	8. MAXIMUM FULL-SCALE OUTPUT VOLTAGE	VOLTS
2. MAXIMUM INPUT FREQUENCY	HERTZ	9. MAXIMUM OUTPUT CURRENT	VOLT-AMPERES
3. MAXIMUM INPUT POWER	VOLT-AMPERES	10. LINE REGULATION	PERCENT
4. MINIMUM OUTPUT FREQUENCY	HERTZ	11. LOAD REGULATION	PERCENT
5. MAXIMUM OUTPUT FREQUENCY	HERTZ	12. POWER FACTOR	NUMBER
6. MINIMUM OUTPUT VOLTAGE	VOLTS	13. NOISE LEVEL	DECIBELS
7. MINIMUM FULL-SCALE OUTPUT VOLTAGE	VOLTS	14. GAIN STABILITY	PERCENT/ 24 HOURS
A. SINGLE PHASE		G. PROGRAMMABLE	
B. TWO PHASE		H. 50 HZ POWER	
C. THREE PHASE		I. 60 HZ POWER	
D. INTERCHANGEABLE OSCILLATOR		J. 400 HZ POWER	
E. VARIABLE FREQUENCY		K. 115V AC	
F. FIXED FREQUENCY		L. 230V AC	

NOTES:

7. The full-scale value of the lowest output range required.

8. The full-scale value of the highest output range required.

10. The allowable change, measured as a percentage, in output of full load for a +/-10% change in input line voltage.

11. The allowable change, measured as a percentage, in the steady-state value of the output voltage from no load to full load.

14. The extent to which the sensitivity is to remain constant with time, measured as percentage over a 24-hour time period.

A,B,C. An "X" shall indicate the phase power required of the ETE.

D. If the ETE is to have interchangeable oscillators, an "X" shall be entered.



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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT SUPPORT ITEM PARAMETERS

ETE NOUN NAME: COUPLER, DIRECTIONAL, COAXIAL  
ETE GENERIC CODE: DC1

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. NOMINAL COUPLING	DECIBELS	7. PRIMARY VSWR	NUMBER
2. MAXIMUM COUPLING VARIATION	DECIBELS	8. SECONDARY VSWR	NUMBER
3. MINIMUM FREQUENCY	HERTZ	9. MAXIMUM AVERAGE INCIDENT POWER	WATTS
4. MAXIMUM FREQUENCY	HERTZ	10. MAXIMUM AVERAGE REFLECTED POWER	WATTS
5. MINIMUM DIRECTIVITY	DECIBELS	11. MAXIMUM PEAK POWER	WATTS
6. INSERTION LOSS	DECIBELS	12. TRACKING	DECIBELS
A. SINGLE		F. APC-3.5 CONNECTOR	
B. DUAL		G. SMA CONNECTOR	
C. N CONNECTOR		H. GR874 CONNECTOR	
D. BNC CONNECTOR		I. SEXLESS CONNECTOR	
E. APC-7 CONNECTOR			

NOTES:

1. The ratio in dB of the incident power fed into the main port to the coupled port power when all ports are terminated by reflectionless terminations.
2. The maximum allowable peak-to-peak variation in coupling coefficient over a specified frequency band.
5. The minimum ratio in decibels of the power output at an auxiliary port is transmitted in the preferred direction to the power output at the same auxiliary port when the same amount of power is transmitted in transmitted in the opposite direction.
7. The maximum allowable standing wave ratio of the ETE when measured through main (primary) line shall be entered.
8. The maximum allowable standing wave ratio of the ETE when measured through the auxiliary (secondary) line shall be entered.
12. The maximum change allowed in the difference of the coupling coefficient ratio of two couplers.
1. Sexless connectors are connectors that will mate with any connector of the same type.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT SUPPORT ITEM PARAMETERS

ETE NOUN NAME: COUPLER, DIRECTIONAL, WAVEGUIDE  
ETE GENERIC CODE: DC2

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. NOMINAL COUPLING	DECIBELS	7. MAXIMUM POWER PRIMARY LINE	WATTS
2. MEAN COUPLING ACCURACY	DECIBELS	8. MINIMUM FREQUENCY	HERTZ
3. MAXIMUM COUPLING VARIATION	DECIBELS	9. MAXIMUM FREQUENCY	HERTZ
4. MINIMUM DIRECTIVITY	DECIBELS	10. FLANGE UG-( )/U	NUMBER
5. VSUR PRIMARY LINE	NUMBER	11. EIA WR#	NUMBER
6. VSUR AUXILIARY LINE	NUMBER	12. TRACKING	DECIBELS
A. COVER		B. CHOKE	

NOTES:

1. The ratio in decibels of the incident power fed into the main port to the coupled port power when all ports are terminated by reflectionless terminations.
  3. The maximum allowable peak-to-peak variation in coupling coefficient over a specified frequency band.
  4. The minimum ratio in decibels of the power output at an auxiliary port when power is transmitted in the preferred direction to the power output at the same auxiliary port when the same amount of power is transmitted in the opposite direction.
  5. The maximum allowable standing wave ratio of the ETE when measured through the main (primary) line.
  6. The maximum allowable standing wave ratio of the ETE when measured through the auxiliary (secondary) line.
  10. The waveguide input flange JAN designation number. Only the number shall be entered. (for example, "585" would be entered to indicate "UG-585/U.")
  11. Electronic Industries Association Waveguide Rigid Number.
- A,B. An "X" shall indicate the type of waveguide flange required.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT SUPPORT ITEM PARAMETERS

ETE NOUN NAME: COUPLER, HYBRID, QUADRATURE  
ETE GENERIC CODE: CQ1

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. CENTER FREQUENCY	HERTZ	7. PHASE QUADRATURE	DEGREES
2. BANDWIDTH	PERCENT	8. PHASE QUADRATURE ACCURACY	DEGREES
3. OUTPUT EQUALITY	DECIBELS	9. MAXIMUM POWER	WATTS
4. COUPLING	DECIBELS	10. VSWR	NUMBER
5. ISOLATION	DECIBELS	11. NOMINAL IMPEDANCE	OHMS
6. INSERTION LOSS	DECIBELS		
A. N CONNECTOR		F. F CONNECTOR	
B. APC-7 CONNECTOR		G. M CONNECTOR	
C. BNC CONNECTOR		H. SEXLESS CONNECTOR	
D. SMA CONNECTOR		I. INTERNAL TERMINATION	
E. OSM CONNECTOR			

## NOTES:

3. The peak-to-peak difference allowed between output signals.
5. The leakage level allowed between the input port pair with the output ports terminated in matched loads.
7. The phase angle relationship of one signal leaving an output port to another signal leaving the other output port.
10. The worst-case VSWR to be allowed of the ETE shall be entered.
- F. Female connector.
- G. Male connector.
- H. Sexless connectors are those that will mate with any connector of the same type.
- I. If the ETE is to have internal terminations, an "X" shall be entered.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT SUPPORT ITEM PARAMETERS

EIE NOUN NAME: DETECTOR, RF, DIRECTIONAL  
ETE GENERIC CODE: DE1

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM FREQUENCY	HERTZ	6. INSERTION LOSS	DECIBELS
2. MAXIMUM FREQUENCY	HERTZ	7. PRIMARY LINE VSWR	NUMBER
3. LOW-LEVEL SENSITIVITY	VOLTS/WATT	8. NOMINAL IMPEDANCE	OHMS
4. MAXIMUM COUPLING VARIATION	DECIBELS	9. MAXIMUM POWER INPUT	WATTS
5. MINIMUM DIRECTIVITY	DECIBELS		
A. N PRIMARY CONNECTOR		G. APC-3.5 DETECTOR CONNECTOR	
B. APC-7 PRIMARY CONNECTOR		H. SMA DETECTOR CONNECTOR	
C. APC-3.5 PRIMARY CONNECTOR		I. SMC DETECTOR CONNECTOR	
D. SMA PRIMARY CONNECTOR		J. SCHOTTKY (LBSD) DIODE	
E. BNC DETECTOR CONNECTOR		K. POINT CONTACT	
F. APC-7 DETECTOR CONNECTOR			

NOTES:

4. The maximum allowable peak-to-peak variation in coupling coefficient over a specified frequency band.
5. The minimum ratio in decibels of the power output at an auxilliary port when power is transmitted in the preferred direction to the power output at the same auxiliary port when the same amount of power is transmitted in the opposite direction.
7. The worst-case VSWR to be allowed of the ETE shall be entered.
- J. An "X" shall be entered if a low-barrier Schottky diode is required.
- K. An "X" shall be entered if a point-contact detector is required.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT SUPPORT ITEM PARAMETERS

ETE NOUN NAME: DETECTOR, RF, FIXED, COAXIAL  
ETE GENERIC CODE: DE2

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM FREQUENCY	HERTZ	6. MAXIMUM PEAK INPUT POWER	WATTS
2. MAXIMUM FREQUENCY	HERTZ	7. SHORT-TERM MAXIMUM INPUT POWER	WATTS
3. FREQUENCY RESPONSE	DECIBELS	<1 MINUTE	
4. LOW-LEVEL SENSITIVITY	VOLTS/WATT	8. NOMINAL IMPEDANCE	OHMS
5. MAXIMUM AVERAGE INPUT POWER	WATTS	9. VSWR	NUMBER
A. POINT CONTACT		I. SMA INPUT CONNECTOR	
B. SCHOTTKY (LBSD) DIODE		J. N OUTPUT CONNECTOR	
C. NEGATIVE OUTPUT		K. APC-7 OUTPUT CONNECTOR	
D. POSITIVE OUTPUT		L. APC-3.5 OUTPUT CONNECTOR	
E. N INPUT CONNECTOR		M. SMA OUTPUT CONNECTOR	
F. BNC INPUT CONNECTOR		N. SQUARE-LAW LOAD	
G. APC-7 INPUT CONNECTOR		O. MATCHED PAIR	
H. APC-3.5 INPUT CONNECTOR			

## NOTES:

1. A minimum frequency of dc shall be indicated by a zero.
3. The required flatness of the ETE output across a band of frequencies applied to the input. A specification of +/- 0.5 dB from a reference, for example, would be recorded as 1 dB.
7. The short-term (for less than 1 minute) power.
9. The worst-case VSWR to be allowed of the ETE shall be entered.
- A. If the ETE is required to have a point contact diode installed, an "X" shall be entered.
- B. If the ETE is required to have a low-barrier Schottky diode installed, an "X" shall be entered.
- N. If the ETE is required to include a square-law load either internally or as an accessory, an "X" shall be entered.
- O. If the ETE is required to consist of a pair of matched detectors, an "X" shall be entered.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT SUPPORT ITEM PARAMETERS

ETE NOUN NAME: DETECTOR, RF, FIXED, WAVEGUIDE  
ETE GENERIC CODE: DE3

PARAMETER	UNITS	PARAMETER	UNITS
1. MINIMUM FREQUENCY	HERTZ	6. MAXIMUM PEAK INPUT POWER	WATTS
2. MAXIMUM FREQUENCY	HERTZ	7. MAXIMUM AVERAGE INPUT POWER	WATTS
3. FREQUENCY RESPONSE	DECIBELS	8. NOMINAL IMPEDANCE	OHMS
4. LOW-LEVEL SENSITIVITY	VOLTS/WATT	9. EIA UR#	NUMBER
5. VSWR	NUMBER	10. FLANGE UG-{ }/U	NUMBER
A. NEGATIVE OUTPUT		G. SMA OUTPUT CONNECTOR	
B. POSITIVE OUTPUT		H. MALE OUTPUT CONNECTOR	
C. N OUTPUT CONNECTOR		I. FEMALE OUTPUT CONNECTOR	
D. BNC OUTPUT CONNECTOR		J. SEXLESS OUTPUT CONNECTOR	
E. APC-7 OUTPUT CONNECTOR		K. SQUARE-LAW LOAD	
F. APC-3.5 OUTPUT CONNECTOR		L. MATCHED PAIR	

NOTES:

3. The required flatness of the ETE output across a band of frequencies applied to the input. A specification of +/-0.5 dB from a reference, for example, would be recorded as 1 dB.

4. The output response required of the ETE for a given low-level signal input.

5. The worst-case VSWR to be allowed of the ETE shall be entered.

9. Electronic Industries Association Waveguide Rigid Number.

10. The waveguide flange JAN designation number. Only the number shall be entered. (For example, "585" would be entered to indicate "UG-585/U.")

K. If a load is required either internally or as an accessory, an "X" shall be entered.

L. If two matching detectors are required, an "X" shall be entered.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT SUPPORT ITEM PARAMETERS

ETE NOUN NAME: DETECTOR, RF, TUNABLE, COAXIAL  
ETE GENERIC CODE: DE4

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM FREQUENCY	HERTZ	3. VSWR	NUMBER
2. MAXIMUM FREQUENCY	HERTZ	4. TUNING CONTROLS	NUMBER
A. N CONNECTOR		D. SMA CONNECTOR	
B. BNC CONNECTOR		E. FEMALE CONNECTOR	
C. TNC CONNECTOR		F. MALE CONNECTOR	

## NOTES:

1. A minimum frequency of dc shall be indicated by a zero.

3. The worst-case VSWR to be allowed of the ETE shall be entered.

4. The number of tuning controls to be provided on the ETE.

A,B,C,D,E,F. An "X" shall indicate the connectors required on the ETE.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT SUPPORT ITEM PARAMETERS

ETE NOUN NAME: DETECTOR, RF, TUNABLE, WAVEGUIDE  
ETE GENERIC CODE: DE5

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM FREQUENCY	HERTZ	4. EIA WR#	NUMBER
2. MAXIMUM FREQUENCY	HERTZ	5. VSWR	NUMBER
3. FLANGE UG-( )/U	NUMBER		
A. TUNING SCREWS		C. CHOKE	
B. COVER			

NOTES:

3. The waveguide flange JAN designation number. Only the number shall be entered. (For example, "585" shall be entered to indicate "UG-585/U.")

4. Electronic Industries Association Waveguide Rigid Number.

5. The worst-case VSWR to be allowed of the ETE shall be entered.

B,C. An "X" shall indicate the type of waveguide flange required.



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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT SUPPORT ITEM PARAMETERS

ETE NOUN NAME: DIVIDER, POWER  
ETE GENERIC CODE: DP1

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM FREQUENCY	HERTZ	6. MAXIMUM (PEAK) INPUT POWER	WATTS
2. MAXIMUM FREQUENCY	HERTZ	7. CONNECTOR REPEATABILITY	DECIBELS
3. INSERTION LOSS	DECIBELS	8. OUTPUT PHASE DIFFERENCE	DEGREES
4. NOMINAL IMPEDANCE	OHMS	9. VSWR	NUMBER
5. MAXIMUM (AVERAGE) INPUT POWER	WATTS	10. NUMBER OF PORTS	NUMBER
A. N CONNECTORS		E. RESISTIVE DIVIDER	
B. MALE CONNECTOR		F. REACTIVE DIVIDER	
C. FEMALE CONNECTOR		G. HYBRID DIVIDER	
D. INTERCHANGEABLE PORTS			

NOTES:

1. A minimum frequency of dc shall be indicated by a zero.
  7. The required capability of the connector to repeat the same insertion loss and VSWR measured in decibels.
  8. The nominal output phase difference acceptable between output ports.
  9. The worst-case VSWR to be allowed of the ETE shall be entered.
- A,B,C. An "X" shall be entered for the applicable connectors.
- D. An "X" shall be entered if ports that permit any port to be used as an input are required.
- E,F,G. An "X" shall be entered for the type of divider required.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT SUPPORT ITEM PARAMETERS

ETE NOUN NAME: DIVIDER, VOLTAGE, DECADE  
ETE GENERIC CODE: DR3

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. ABSOLUTE LINEARITY: LONG-TERM	PARTS/ MILLION	9. EFFECTIVE OUTPUT CAPACITANCE	FARADS
2. TERMINAL LINEARITY: RELATIVE TO INPUT	PARTS/ MILLION	10. MAXIMUM INPUT POWER (CONTINUOUS)	WATTS
3. RESOLUTION	PARTS/ MILLION	11. MAXIMUM INPUT POWER (INTERMITTENT)	WATTS
4. MAXIMUM RMS OPERATING VOLTAGE	VOLTS	12. POWER COEFFICIENT	PARTS/MIL- LION/WATT
5. PEAK BREAKDOWN VOLTAGE TO CASE	VOLTS	13. TEMPERATURE COEFFICIENT	PARTS/ MILLION/ DEGREE C
6. INPUT RESISTANCE	OHMS	14. MAXIMUM INPUT FREQUENCY	HERTZ
7. INPUT RESISTANCE ACCURACY	PERCENT	15. SWITCH CONTACT RESISTANCE VARIATION	PARTS/ MILLION
8. MAXIMUM OUTPUT RESISTANCE	OHMS		
A. BINDING POSTS		C. INLINE READOUT	
B. COAXIAL TERMINATIONS		D. NUMBER OF DIALS	NUMBER

NOTES:

4. The safe operating limit required.
12. The change in linearity caused by the variation in input power.
13. The allowable change in voltage when the ambient temperature changes by 1 degree Centigrade.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT SUPPORT ITEM PARAMETERS

ETE NOUN NAME: DUMMY LOAD, COAXIAL (>50W)  
ETE GENERIC CODE: DLI

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. NOMINAL IMPEDANCE	OHMS	5. MINIMUM FREQUENCY	HERTZ
2. VSWR	NUMBER	6. MAXIMUM FREQUENCY	HERTZ
3. MAXIMUM AVERAGE INPUT POWER	WATTS	7. TEMPERATURE COEFFICIENT	PARTS/ MILLION/ DEGREE C
4. MAXIMUM PEAK INPUT POWER	WATTS		
A. N CONNECTOR INPUT		G. QC CONNECTOR	
B. TNC CONNECTOR INPUT		H. QC-LC CONNECTOR	
C. SC CONNECTOR INPUT		I. WATER COOLANT	
D. SMA CONNECTOR		J. AIR COOLANT	
E. MALE CONNECTOR INPUT		K. OIL COOLANT	
F. FEMALE CONNECTOR INPUT		L. MOVING LOAD	

## NOTES

2. The worst-case VSWR to be allowed of the ETE shall be entered.

5. A minimum frequency of dc shall be indicated by a zero.

7. The change in resistance allowed when the ambient temperature changes by 1 degree Centigrade.

A,B,C,D,E,F,G,H. An "X" shall be entered for the type(s) of input connector required.

I,J,K. An "X" shall be entered for the required type(s) of coolant to be used for the dummy load.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT SUPPORT ITEM PARAMETERS

ETE NOUN NAME: DUMMY LOAD, WAVEGUIDE (>50W)  
ETE GENERIC CODE: DL2

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. NOMINAL IMPEDANCE	OHMS	5. MAXIMUM PEAK INPUT POWER	WATTS
2. VSWR	NUMBER	6. MAXIMUM AVERAGE INPUT POWER	WATTS
3. MINIMUM FREQUENCY	HERTZ	7. EIA WR#	NUMBER
4. MAXIMUM FREQUENCY	HERTZ	8. FLANGE UG-( )/U	NUMBER
A. FIXED LOAD		E. LIQUID COOLANT	
B. ADJUSTABLE		F. COVER	
C. AIR CONVECTION		G. CHOKE	
D. FORCED AIR			

## NOTES:

2. The worst-case VSWR to be allowed of the ETE shall be entered.

7. Electronics Industries Association Waveguide Rigid Number.

8. The waveguide flange JAN designation number. Only the number shall be entered. (For example, "585" would be entered to indicate "UG-585/U.")

C,D,E. An "X" shall be entered for the type of load cooling required.

F,G. An "X" shall be entered for the type(s) of waveguide flanges required.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT SUPPORT ITEM PARAMETERS

ETE NOUN NAME: FILTER, BANDPASS  
ETE GENERIC CODE: FL1

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM BAND-PASS FREQUENCY	HERTZ	7. NOMINAL IMPEDANCE	OHMS
2. MAXIMUM BAND-PASS FREQUENCY	HERTZ	8. BAND-PASS VSWR	NUMBER
3. BAND-PASS INSERTION LOSS	DECIBELS	9. MAXIMUM INPUT POWER	WATTS
4. MIDBAND INSERTION LOSS	DECIBELS	10. EIA UR#	NUMBER
5. LOW-END STOP-BAND REJECTION	DECIBELS	11. FLANGE UG-( )/U	NUMBER
6. HIGH-END STOP-BAND REJECTION	DECIBELS		
A. COAXIAL		H. GR874 CONNECTOR	
B. WAVEGUIDE		I. COVER	
C. N CONNECTOR		J. CHOKE	
D. BNC CONNECTOR		K. M-M CONNECTOR	
E. APC-7 CONNECTOR		L. M-F CONNECTOR	
F. APC-3.5 CONNECTOR		M. F-F CONNECTOR	
G. SMA CONNECTOR		N. SEXLESS CONNECTOR	

## NOTES:

8. The worst-case VSWR to be allowed of the ETE shall be entered.

10. Electronics Industries Association Waveguide Rigid Number.

11. The waveguide flange JAN designation number. Only the number shall be entered. (For example, "585" would be entered to indicate "UG-585/U.")

I,J. An "X" shall be entered for waveguide flange type required.

K. Male-to-male connectors.

L. Male-to-female connectors.

M. Female-to-female connectors.

N. Sexless connectors are those connectors that will mate with any connector of the same type.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT SUPPORT ITEM PARAMETERS

ETE NOUN NAME: FILTER, LOWPASS  
ETE GENERIC CODE: FL2

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. CUT-OFF FREQUENCY	HERTZ	6. BAND-PASS VSWR	NUMBER
2. BAND-PASS INSERTION LOSS	DECIBELS	7. MAXIMUM INPUT POWER	WATTS
3. REJECTION AT 1.25 FC	DECIBELS	8. EIA WR#	NUMBER
4. RETURN LOSS	DECIBELS	9. FLANGE UG-( )/U	NUMBER
5. NOMINAL IMPEDANCE	OHMS		
A. COAXIAL		H. GRC 874 CONNECTOR	
B. WAVEGUIDE		I. COVER	
C. N CONNECTOR		J. CHOKE	
D. BNC CONNECTOR		K. M-M CONNECTOR	
E. APC-7 CONNECTOR		L. M-F CONNECTOR	
F. APC-3.5 CONNECTOR		M. F-F CONNECTOR	
G. SMA CONNECTOR		N. SEXLESS CONNECTOR	

NOTES

3. The signal rejection required at 1.25 times the cut-off frequency.

6. The worst-case VSWR to be allowed of the ETE shall be entered.

8. Electronics Industries Association Waveguide Rigid Number.

9. The waveguide flange JAN designation number. Only the number shall be entered. (For example, "585" would be entered to indicate "UG-585/U.")

I, J. An "X" shall be entered for the type(s) of waveguide flange required.

K. Male-to-male connectors.

L. Male-to-female connectors.

M. Female-to-female connectors.

N. Sexless connectors are those that mate with any connector of the same type.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT SUPPORT ITEM PARAMETERS

ETE NOUN NAME: FILTER, NOTCH  
ETE GENERIC CODE: FL3

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM FREQUENCY	HERTZ	5. EIA WR#	NUMBER
2. MAXIMUM FREQUENCY	HERTZ	6. FLANGE UG-( )/U	NUMBER
3. MAXIMUM PEAK INPUT POWER	WATTS	7. STOP-BAND ATTENUATION	DECIBELS
4. MAXIMUM AVERAGE INPUT POWER	WATTS		
A. N CONNECTOR		G. COVER	
B. BNC CONNECTOR		H. M-M CONNECTOR	
C. APC-7 CONNECTOR		I. F-F CONNECTOR	
D. SMA CONNECTOR		J. M-F CONNECTOR	
E. TNC CONNECTOR		K. SEXLESS CONNECTOR	
F. CHOKE			

## NOTES:

5. Electronics Industries Association Waveguide Rigid Number.

6. The waveguide flange JAN designation number. Only the number shall be entered. (For example, "585" would be entered to indicate "UG-585/U.")

F,G. An "X" shall be entered for the type of waveguide flange required.

H. Male-to-male connector.

I. Female-to-female connector.

J. Male-to-female connector.

K. Sexless connectors are those that will mate with any connector of the same type.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT SUPPORT ITEM PARAMETERS

ETE NOUN NAME: FILTER, VARIABLE  
ETE GENERIC CODE: FL4

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM FREQUENCY	HERTZ	11. MINIMUM PASS-BAND GAIN	DECIBELS
2. MAXIMUM FREQUENCY	HERTZ	12. MAXIMUM PASS-BAND GAIN	DECIBELS
3. MINIMUM ATTENUATION SLOPE	DECIBELS	13. PASS-BAND GAIN ACCURACY	DECIBELS
4. MAXIMUM ATTENUATION SLOPE	DECIBELS	14. NOMINAL OUTPUT INTERNAL IMPEDANCE	OHMS
5. MAXIMUM ATTENUATION	DECIBELS	15. MAXIMUM PEAK AC OUTPUT VOLTAGE	VOLTS
6. INSERTION LOSS	DECIBELS	16. MAXIMUM PEAK OUTPUT CURRENT	AMPERES
7. CUT-OFF FREQUENCY CALIBRATION ACCURACY	PERCENT	17. OUTPUT DC STABILITY	VOLTS/HOUR
8. NOMINAL INPUT IMPEDANCE	OHMS	18. OUTPUT DC STABILITY	VOLTS/DEGREE
9. MAXIMUM PEAK AC INPUT VOLTAGE	VOLTS		CENTIGRADE
10. MAXIMUM INPUT PEAK DC COMPONENT	VOLTS		
A. BANDPASS		I. FLOATING OPERATION	
B. BAND REJECT		J. INTERNAL BATTERY POWER	
C. LOW-PASS MODE		K. 50 HZ POWER	
D. HIGH-PASS MODE		L. 60 HZ POWER	
E. SINGLE CHANNEL		M. 400 HZ POWER	
F. DUAL CHANNEL		N. 115V AC	
G. BUTTERWORTH		O. 230V AC	
H. RC RESPONSE			

NOTES:

1. A minimum frequency of dc shall be indicated by a zero.

A,B,C,D. A mode of filter operation. An "X" shall be entered for the applicable mode(s).

E,F. An "X" shall be entered if this capability is required.

G,H. An "X" shall be entered if a response curve is required.

I. An "X" shall be entered if a method to disconnect the signal ground from chassis is required.

J. An "X" shall be entered if battery operation is required.



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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT SUPPORT ITEM PARAMETERS

ETE NOUN NAME: HORN, STANDARD GAIN  
ETE GENERIC CODE: HN1

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM FREQUENCY	HERTZ	7. FIRST SIDE LOBE (E PLANE)	DECIBELS
2. MAXIMUM FREQUENCY	HERTZ	8. SECOND SIDE LOBE (E PLANE)	DECIBELS
3. GAIN AT MIDDLE FREQUENCY	DECIBELS	9. FIRST SIDE LOBE (H PLANE)	DECIBELS
4. VSWR	NUMBER	10. SECOND SIDE LOBE (H PLANE)	DECIBELS
5. CALIBRATION ACCURACY	DECIBELS	11. INPUT FLANGE UG-( )/U	NUMBER
6. BEAM WIDTH	DEGREES	12. EIA UR #	NUMBER
A. COVER		C. GAIN CURVE CHART	
B. CHOKE			

## NOTES:

4. The worst-case VSWR to be allowed of the ETE shall be entered.

5. The required accuracy of the antenna gain curve chart.

11. The input waveguide flange JAN designation number. Only the number shall be entered. (For example, "585" would be entered to indicate "UG-585/U.")

12. Electronics Industries Association Waveguide Rigid Number.

A,B. An "X" shall be entered if this type of waveguide flange is required.

C. An "X" shall be entered if a gain curve chart is required.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT SUPPORT ITEM PARAMETERS

ETE NOUN NAME: INDUCTOR, DECADE  
ETE GENERIC CODE: LN1

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM INDUCTANCE SETTING	HENRYS	7. MAXIMUM SAFE CURRENT	AMPERES
2. MAXIMUM INDUCTANCE SETTING	HENRYS	8. MINIMUM FREQUENCY	HERTZ
3. INDUCTANCE ACCURACY	PERCENT	9. MAXIMUM FREQUENCY	HERTZ
4. ZERO INDUCTANCE	HENRYS	10. DC RESISTANCE	OHMS/HENRY
5. TEMPERATURE COEFFICIENT	PARTS/ MILLION/ DEGREE C	11. STORAGE FACTOR	NUMBER
6. MAXIMUM RMS VOLTS	VOLTS	12. NUMBER OF DIALS	NUMBER
A. BINDING POSTS		C. RACK MOUNT	
B. SHIELD		D. BENCH	

NOTES:

1. The minimum value of inductance required.
2. The maximum value of inductance required.
4. The acceptable value of inductance added in the circuit when all dials of the inductor are set to zero.
5. The acceptable change in inductance when the ambient temperature changes by 1 degree Centigrade. It can be stated as a negative value (for example, -25 ppm).
8. A minimum frequency of dc shall be indicated by a zero.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT SUPPORT ITEM PARAMETERS

ETE NOUN NAME: ISOLATOR, COAXIAL  
ETE GENERIC CODE: SR1

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM FREQUENCY	HERTZ	4. VSWR	NUMBER
2. MAXIMUM FREQUENCY	HERTZ	5. MAXIMUM INSERTION LOSS	DECIBELS
3. ISOLATION	DECIBELS		
A. MAGNETIC SHIELDING		C. FEMALE CONNECTOR	
B. N CONNECTOR		D. MALE CONNECTOR	

NOTES:

1. A minimum frequency of dc shall be indicated by a zero.
  4. The worst-case VSWR to be allowed of the ETE shall be entered.
- A. An "X" shall be entered if magnetic shielding is required.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT SUPPORT ITEM PARAMETERS

ETE NOUN NAME: ISOLATOR, WAVEGUIDE  
ETE GENERIC CODE: SR2

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM FREQUENCY	HERTZ	6. PEAK INPUT POWER	WATTS
2. MAXIMUM FREQUENCY	HERTZ	7. AVERAGE INPUT POWER	WATTS
3. ISOLATION	DECIBELS	8. FLANGE UG-( )/U	NUMBER
4. INSERTION LOSS	DECIBELS	9. E.I.A. WR#	NUMBER
5. INPUT SWR	NUMBER		
A. COVER FLANGE		B. CHOKE FLANGE	

## NOTES:

8. The waveguide flange JAN designation number. Only the number shall be entered. (For example, "585" would be entered to indicate "UG-585/U.")

9. Electronics Industries Association waveguide rigid number.

A.,B. An "X" shall be entered for the type of waveguide flange required on the ETE.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT SUPPORT ITEM PARAMETERS

ETE NOUN NAME: MIXER, BALANCED, DOUBLE  
ETE GENERIC CODE: MX1

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM FREQUENCY	HERTZ	5. IMPEDANCE	OHMS
2. MAXIMUM FREQUENCY	HERTZ	6. INPUT EIA WR#	NUMBER
3. MAXIMUM INPUT LEVEL	AMPERES	7. INPUT FLANGE UG-( )/U	NUMBER
4. MAXIMUM INPUT POWER L-PORT	WATTS		
A. COAXIAL INPUT		H. CHOKE INPUT	
B. WAVEGUIDE INPUT		I. COAXIAL OUTPUT	
C. N INPUT		J. N OUTPUT	
D. BNC OUTPUT		K. BNC OUTPUT	
E. APC-7 INPUT		L. APC-7 OUTPUT	
F. SMA INPUT		M. SMA OUTPUT	
G. COVER INPUT			

NOTES:

6. Electronics Industries Association Waveguide Rigid Number.

7. The waveguide input flange JAN designation number. Only the number shall be entered. (For example, "585" would be entered to indicate "UG-585/U.")

G,H. An "X" shall be entered for the type of waveguide flange required on the input of the mixer.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT SUPPORT ITEM PARAMETERS

ETE NOUN NAME: MODULATOR, WAVEGUIDE  
ETE GENERIC CODE: ML1

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM FREQUENCY	HERTZ	6. MODULATION SPEED	HERTZ
2. MAXIMUM FREQUENCY	HERTZ	7. VSWR	NUMBER
3. MAXIMUM INPUT RF POWER	WATTS	8. PHYSICAL LENGTH	CENTIMETERS
4. MINIMUM ATTENUATION RANGE	DECIBELS	9. FLANGE UG- ( ' /U	NUMBER
5. MAXIMUM INSERTION LOSS	DECIBELS	10. EIA WR#	NUMBER
A. COVER		B. CHOKE	

NOTES:

6. The maximum switching speed at which modulation can occur.

7. The worst-case VSWR to be allowed of the ETE shall be entered.

9. The waveguide flange JAN designation number. Only the number shall be entered. (For example, "585" would be entered to indicate "UG-585/U.")

10. Electronics Industries Association Waveguide Rigid Number.

A,B. An "X" shall be entered for the type of waveguide flange required.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT SUPPORT ITEM PARAMETERS

ETE NOUN NAME: POWER SUPPLY, DIRECT VOLTAGE  
ETE GENERIC CODE: PS1

PARAMETER	UNITS	PARAMETER	UNITS
1. MINIMUM DC OUTPUT VOLTAGE	VOLTS	11. PARD CURRENT	AMPERES
2. MAXIMUM DC OUTPUT VOLTAGE	VOLTS	12. DRIFT (STABILITY) VOLTAGE/8 HOURS	VOLTS
3. MINIMUM OUTPUT CURRENT	AMPERES	13. DRIFT (STABILITY) CURRENT/8 HOURS	AMPERES
4. MAXIMUM OUTPUT CURRENT	AMPERES	14. TEMPERATURE COEFFICIENT	PERCENT/ DEGREE C
5. LOAD EFFECT VOLTAGE	VOLTS	15. RESOLUTION (VOLTAGE)	VOLTS
6. LOAD EFFECT CURRENT	AMPERES	16. RESOLUTION (CURRENT)	AMPERES
7. LOAD EFFECT TRANSIENT RECOVERY TIME	SECONDS	17. NOMINAL OUTPUT IMPEDANCE	OHMS
8. SOURCE EFFECT VOLTAGE	VOLTS	18. VOLTMETER ACCURACY	PERCENT
9. SOURCE EFFECT CURRENT	AMPERES	19. AMMETER ACCURACY	PERCENT
10. PARD VOLTAGE	VOLTS		
A. CONSTANT VOLTAGE		L. REVERSE VOLTAGE PROTECTION	
B. CONSTANT CURRENT		M. AUTOSERIES	
C. CURRENT LIMITING		N. AUTOPARALLEL	
D. REMOTE SENSING		O. AUTOTRACKING	
E. REMOTE PROGRAMMING		P. 50 HZ POWER	
F. VOLTMETER		Q. 60 HZ POWER	
G. AMMETER		R. 400 HZ POWER	
H. FLOATING OUTPUT		S. 115V AC	
I. REAR TERMINAL		T. 230V AC	
J. OVERVOLTAGE PROTECTION		U. 440V AC	
K. SHORT CIRCUIT PROTECTION			

## NOTES:

5. The allowable change in the steady-state value of the stabilized output voltage resulting from a full-load change in the load current of a constant-voltage supply.

6. The allowable change in the steady-state of the current resulting from a full-load change in the load voltage of a constant-current supply.

7. The allowable time interval between a specified step change in the load current of a constant voltage supply or in the load voltage of a constant current supply and the instant when the stabilized output quantity returns to and stays within the specified transient recovery band.

8. The change in the steady-state value of the stabilized output voltage resulting from any change in the source voltage within its specified range.

9. The allowable change in the steady-state value of the stabilized output current resulting from any change in the source voltage within its specified range.

10. The allowable periodic and random deviation (PARD) (ripple and noise) of the dc output over a specified bandwidth.

11. The allowable periodic and random deviation (PARD) of current from its average value over a specified bandwidth.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT SUPPORT ITEM PARAMETERS

ETE NOUN NAME: POWER SUPPLY, DIRECT VOLTAGE  
ETE GENERIC CODE: PS1

NOTES:

12. The maximum allowable change of the output voltage during an 8-hour period. Drift includes both periodic and random deviations over the bandwidth from zero frequency (dc) to a specified upper frequency limit.

13. The maximum allowable change of the output current during an 8-hour period. Drift includes both periodic and random deviations over the bandwidth from zero frequency (dc) to a specified upper frequency limit.

15. The smallest change in the output voltage that shall be obtained by use of the front-panel controls.

16. The smallest change in the output current that shall be obtained by use of the front-panel controls.

H. This refers to an isolated output circuit not connected to ground at any point. In a floating output circuit, both positive and negative conductors are equally free from a reference potential. If floating operating capability is required, an "X" shall be entered.

I. If rear terminals are required, an "X" shall be entered. If an "X" is not entered it is assumed that front terminals are required.

L. If protection against reverse voltage being applied at the output terminals is required, an "X" shall be entered.

M. If autoseries operation is required, an "X" shall be entered.

N. If autoparallel operation is required, an "X" shall be entered.

O. If autotracking operation is required, an "X" shall be entered.



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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT SUPPORT ITEM PARAMETERS

ETE NOUN NAME: RESISTOR, DECADE  
ETE GENERIC CODE: RE1

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM RESISTANCE SETTING	OHMS	8. MAXIMUM VOLTS TO CASE	VOLTS
2. MAXIMUM RESISTANCE SETTING	OHMS	9. ZERO INDUCTANCE	HENRYS
3. RESISTANCE OVERALL ACCURACY	PERCENT	10. SHUNT CAPACITANCE	FARADS
4. ZERO RESISTANCE	OHMS	11. NUMBER OF DECADES	NUMBER
5. MAXIMUM CURRENT	AMPERES		
6. MAXIMUM POWER	WATTS		
7. TEMPERATURE COEFFICIENT	PARTS/ MILLION/ DEGREE C		
A. TWO-TERMINAL		E. MANUAL SWITCH	
B. THREE-TERMINAL		F. PROGRAMMABLE	
C. FOUR-TERMINAL		G. RACK MOUNT	
D. BINDING POSTS		H. BENCH CASE	

## NOTES:

1. The minimum resistance setting required on the decade resistor excluding the zero setting.
2. The maximum resistance setting required on the decade resistor.
4. The maximum allowable value of resistance between the terminals when all decades are set to zero.
- A. An "X" shall be entered if two connections to the decade resistance are required.
- B. An "X" shall be entered if two connections to the decade resistance and a third connection for case shield or ground are required.
- C. An "X" shall be entered if two connections to each side of the decade resistance are required.
- F. An "X" shall be entered if the decade resistor is to be varied by an external source such as voltage, BCD, IEEE Bus, etc.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT SUPPORT ITEM PARAMETERS

ETE NOUN NAME: TERMINATION, COAXIAL  
ETE GENERIC CODE: TM1

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. NOMINAL IMPEDANCE	OHMS	6. MAXIMUM FREQUENCY	HERTZ
2. VSWR	NUMBER	7. TEMPERATURE COEFFICIENT	PARTS/ MILLION/ DEGREE C
3. MAXIMUM AVERAGE INPUT POWER	WATTS		
4. MAXIMUM PEAK INPUT POWER	WATTS		
5. MINIMUM FREQUENCY	HERTZ		
A. N CONNECTOR		G. QC CONNECTOR	
B. TNC CONNECTOR		H. QC-LC CONNECTOR	
C. SC CONNECTOR		I. WATER COOLANT	
D. SMA CONNECTOR		J. AIR COOLANT	
E. MALE CONNECTOR		K. OIL COOLANT	
F. FEMALE CONNECTOR		L. MOVING LOAD	

NOTES:

2. The worst-case VSWR to be allowed of the ETE shall be entered.

5. A minimum frequency of dc shall be indicated by a zero.

7. The change in resistance allowed when the ambient temperature changes by 1 degree Centigrade.

A,B,C,D,E,F,G,H. An "X" shall be entered for the applicable type(s) of connector.

I,J,K. An "X" shall be entered for the type of coolant to be used for the termination.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT SUPPORT ITEM PARAMETERS

ETE NOUN NAME: TERMINATION, WAVEGUIDE  
ETE GENERIC CODE: TM2

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. NOMINAL IMPEDANCE	OHMS	5. MAXIMUM PEAK INPUT POWER	WATTS
2. VSWR	NUMBER	6. MAXIMUM AVERAGE INPUT POWER	WATTS
3. MINIMUM FREQUENCY	HERTZ	7. FLANGE UG-( )/U	NUMBER
4. MAXIMUM FREQUENCY	HERTZ	8. EIA WR #	NUMBER
A. FIXED LOAD		E. LIQUID COOLANT	
B. ADJUSTABLE		F. COVER	
C. AIR CONVECTION		G. CHOKE	
D. FORCED AIR			

NOTES:

2. The worst-case VSWR to be allowed of the ETE shall be entered.

7. The waveguide JAN designation number. Only the number shall be entered. (For example, "585" would be entered to indicate "UG-585/U.")

8. Electronics Industries Association Waveguide Rigid Number.

C,D,E. An "X" shall be entered for the type of termination cooling required.

F,G. An "X" shall be entered for the type of waveguide flange required.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT SUPPORT ITEM PARAMETERS

EIE NOUN NAME: TRANSFORMER, AUTO  
ETE GENERIC CODE: TR1

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM INPUT AC VOLTAGE	VOLTS	8. MAXIMUM FREQUENCY	HERTZ
2. MAXIMUM INPUT AC VOLTAGE	VOLTS	9. OUTPUT VA	VOLT-AMPERES
3. MINIMUM OUTPUT AC VOLTAGE	VOLTS	10. NUMBER OF RECEPTABLES	NUMBER
4. MAXIMUM OUTPUT AC VOLTAGE	VOLTS	11. VOLTMETER ACCURACY	PERCENT
5. RATED CURRENT	AMPERES	12. AMMETER ACCURACY	PERCENT
6. MAXIMUM CURRENT	AMPERES	13. WATTMETER ACCURACY	PERCENT
7. MINIMUM FREQUENCY	HERTZ		
A. SINGLE PHASE		K. THREE-WIRE	
B. THREE PHASE		L. FUSE	
C. OPEN MOUNTING		M. CIRCUIT BREAKER	
D. ENCLOSED MOUNTING		N. SOLDER TERMINAL	
E. OPEN DELTA CONNECTION		O. SCREW TYPE TERMINAL	
F. WYE CONNECTION		P. CLAMPING TERMINAL	
G. AMMETER		Q. MANUAL	
H. WATTMETER		R. MOTOR DRIVEN	
I. VOLTMETER		S. REVERSIBLE DIAL	
J. TWO-WIRE			

NOTES:

9. The volt-ampere rating is the maximum load current multiplied by the nominal input line voltage.

G. An "X" shall be entered if an ammeter is required with the autotransformer.

H. An "X" shall be entered if a wattmeter is required with the autotransformer.

I. An "X" shall be entered if a voltmeter is required with the autotransformer.

R. An "X" shall be entered if an autotransformer with a motor drive is required.

S. An "X" shall be entered if an autotransformer with a reversible dial plate is required.

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WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT SUPPORT ITEM PARAMETERS

ETE NOUN NAME: TRANSFORMER, ISOLATION  
ETE GENERIC CODE: TR3

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MINIMUM INPUT VOLTAGE	VOLTS	4. MAXIMUM OUTPUT VOLTAGE	VOLTS
2. MAXIMUM INPUT VOLTAGE	VOLTS	5. V-A CAPACITY	VOLT-AMPERES
3. MINIMUM OUTPUT VOLTAGE	VOLTS	6. RMS TEST VOLTAGE	VOLTS
A. SWITCHED INPUT		G. SHIELD NOT GROUNDED	
B. RECEPTACLE OUTPUT		H. PRIMARY TERMINAL	
C. LEAD OUTPUT		I. 50 HZ POWER	
D. STRAIGHT ISOLATION		J. 60 HZ POWER	
E. STEP DOWN ISOLATION		K. 400 HZ POWER	
F. SHIELD TO CORE			

NOTES

6. The insulation test voltage rating required between windings and the core.

A. An "X" shall be entered if the transformer is required to have multiple input voltage ratings that are changed with a switch.

B. An "X" shall be entered if the transformer is required to have a receptacle output.

C. An "X" shall be entered if the transformer is required to have lead outputs.

D. An "X" shall be entered if the transformer is required to provide an output voltage equal to the input voltage.

E. An "X" shall be entered if the transformer is required to step down the input voltage to a lower output voltage.

F. An "X" shall be entered if the transformer is required to have an electrostatic shield grounded to the core.

G. An "X" shall be entered if the electrostatic shield is required to be on a separate leadwire (not grounded).

H. An "X" shall be entered if the transformer is required to have a multiple input capability that is changeable by moving input leads.

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# WEAPON SYSTEM ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: TRANSFORMER, RATIO  
ETE GENERIC CODE: TR4

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. TERMINAL LINEARITY (LONG-TERM)	PARTS/ MILLION	7. INPUT IMPEDANCE	OHMS
2. MAXIMUM SETTING	NUMBER	8. INPUT INDUCTANCE	HENRYS
3. RESOLUTION	PARTS/ MILLION	9. OUTPUT IMPEDANCE	OHMS
4. MAXIMUM INPUT VOLTAGE	VOLTS	10. OUTPUT INDUCTANCE	HENRYS
5. MINIMUM FREQUENCY	HERTZ	11. MAXIMUM OUTPUT CURRENT	AMPERES
6. MAXIMUM FREQUENCY	HERTZ	12. MAXIMUM PHASE SHIFT	RADIANS/ HERTZ
A. 1.1 TAP		F. PUSHBUTTON SWITCH	
B. -0.1 TAP		G. BINDING POSTS	
C. RANGE OVERLAP		H. FRONT CONNECTORS	
D. INTERPOLATING DIAL		I. REAR CONNECTORS	
E. ROTARY SWITCH		J. PROGRAMMABLE	

## NOTES:

5. A minimum frequency of dc shall be indicated by a zero.

A,B. An "X" shall be entered if a 1.1 tap and/or a 0.1 tap on the first decade that gives extended phase correction capability is required.

C. An "X" shall be entered if the decades are required to have settings permitting the decade to be set above 1.0 or below 0.

D. An "X" shall be entered if an interpolating dial is required.

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#### APPENDIX D

##### WEAPON SYSTEM DIGITAL ELECTRONIC TEST EQUIPMENT PARAMETERS

This Appendix contains information related to DOD-STD-2121 (NAVY).  
Appendix D is a mandatory part of this standard.

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# WEAPON SYSTEM DIGITAL ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: TESTER, DIGITAL  
ETE GENERIC CODE: DT1

<u>PARAMETER</u>	<u>UNITS</u>	<u>PARAMETER</u>	<u>UNITS</u>
1. MAXIMUM DATA RATE	HERTZ	15. MAXIMUM RISE TIME	SECONDS
2. MAXIMUM DATA SKEW	SECONDS	16. MAXIMUM FALL TIME	SECONDS
3. MAXIMUM STIMULUS OUTPUTS	NUMBER	17. MAXIMUM INPUT/OUTPUT INTERFACE SINK CURRENT	AMPERES
4. MAXIMUM RESPONSE INPUTS	NUMBER	18. MAXIMUM INPUT/OUTPUT INTERFACE SOURCE CURRENT	AMPERES
5. MINIMUM PROGRAMMABLE STIMULUS VOLTAGE	VOLTS	19. NUMBER OF POWER SUPPLY VOLTAGES AVAILABLE	NUMBER
6. MAXIMUM PROGRAMMABLE STIMULUS VOLTAGE	VOLTS	20. MINIMUM POWER SUPPLY VOLTAGE	VOLTS
7. PROGRAMMABLE STIMULUS VOLTAGE RESOLUTION	VOLTS	21. MAXIMUM POWER SUPPLY VOLTAGE	VOLTS
8. MINIMUM PROGRAMMABLE RESPONSE VOLTAGE	VOLTS	22. WORD STORAGE DEPTH	NUMBER
9. MAXIMUM PROGRAMMABLE RESPONSE VOLTAGE	VOLTS	23. MAXIMUM CLOCK RATE	HERTZ
10. PROGRAMMABLE RESPONSE VOLTAGE RESOLUTION	VOLTS	24. SERIAL DATA TYPE	TYPE
11. LOGIC "ONE" VOLTAGE MAXIMUM	VOLTS	25. MAXIMUM SERIAL STIMULUS WORD LENGTH	NUMBER
12. LOGIC "ONE" VOLTAGE MINIMUM	VOLTS	26. MAXIMUM SERIAL RESPONSE WORD LENGTH	NUMBER
13. LOGIC "ZERO" VOLTAGE MAXIMUM	VOLTS	27. MAXIMUM FAN-OUT	NUMBER
14. LOGIC "ZERO" VOLTAGE MINIMUM	VOLTS		
A. DYNAMIC TESTING		F. READY/RESUME (HANDSHAKE)	
B. BIDIRECTIONAL INPUT/OUTPUT		G. TTL	
C. BIDIRECTIONAL BUS		H. DTL	
D. SERIAL NODE		I. ECL	
E. PULSE CATCH		J. CMOS	

## NOTES:

1. The maximum frequency the ETE is required to supply.
  2. The maximum deviation in time between data bits applied synchronously allowed for the ETE.
  17. The maximum current the ETE driver/receiver is required to handle to ground in amperes.
  18. The maximum current the ETE driver/receiver is required to supply in amperes.
  23. The maximum clock frequency the ETE is required to supply.
  24. The capability of the ETE to handle returns-to-zero (RZ) or non-returns-to-zero (NRZ). Serial data shall be indicated by entering "RZ" or "NRZ" as appropriate.
  25. The maximum serial word size the ETE is required to handle as stimulation.
  26. The maximum serial word size the ETE is required to handle as response.
  27. The maximum number of logic element inputs to be driven by one ETE driver shall be entered.
- A. An "X" shall be entered if the ETE is required to test one or more signal properties or characteristics excluding voltage and current.



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WEAPON SYSTEM DIGITAL ELECTRONIC TEST EQUIPMENT PARAMETERS

ETE NOUN NAME: TESTER, DIGITAL  
ETE GENERIC CODE: DT1

NOTES:

- B,C,D. An "X" shall be entered if this is required.
- E. An "X" shall be entered if the ETE is required to detect and measure a one-shot output.
- F. An "X" shall be entered if the ETE is required to operate in a handshake mode of operation.
- G. If the ETE is required to handle TTL, an "X" shall be entered.
- H. If the ETE is required to handle DTL, an "X" shall be entered.
- I. If the ETE is required to handle ECL, an "X" shall be entered.
- J. If the ETE is required to handle CMOS, an "X" shall be entered.

**STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL***(See Instructions - Reverse Side)*

1. DOCUMENT NUMBER MIL-STD-2121 (NAVY)		2. DOCUMENT TITLE Determination of Electronic Test Equipment Parameters	
3a. NAME OF SUBMITTING ORGANIZATION		4. TYPE OF ORGANIZATION (Mark one)	
b. ADDRESS (Street, City, State, ZIP Code)		<input type="checkbox"/> VENDOR	
		<input type="checkbox"/> USER	
		<input type="checkbox"/> MANUFACTURER	
		<input type="checkbox"/> OTHER (Specify): _____	
5. PROBLEM AREAS			
a. Paragraph Number and Wording:			
b. Recommended Wording:			
c. Reason/Rationale for Recommendation:			
6. REMARKS			
7a. NAME OF SUBMITTER (Last, First, MI) - Optional		b. WORK TELEPHONE NUMBER (Include Area Code) - Optional	
c. MAILING ADDRESS (Street, City, State, ZIP Code) - Optional		8. DATE OF SUBMISSION (YYMMDD)	