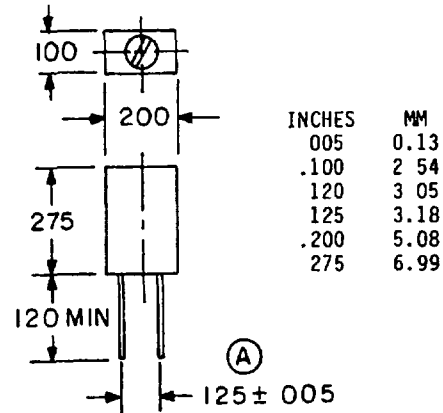


FED SUP CLASS
5950

RATINGS

Style	LT11V
Grade	2
Class	A
Operating temperature range	-55°C to +105°C
Ambient temperature	90°C
Temperature rise	15°C
Power dissipation	200 mW max
Dielectric withstanding voltages	
Sea level	1,000 V rms min
Reduced barometric pressure	200 V rms min
Terminal pull	
-1 thru -13	2 pounds min
-14 thru -17	1 pound min
Tuning torque	.005 - 15 in oz
Stop torque	.15 in. oz. max
Altitude	70,000 feet
Weight	.200 gram max



ELECTRICAL CHARACTERISTICS (initial)

Dash No. 1/	Type Designation	Inductance		Test Freq MHz	Q Min at L Max	SRF Min. MHz	DC Res. at 25°C Max. Ohms	Rated Current Max. mA DC
		L Max μ H	L Min. μ H					
-1	LT11V022	10.0	5.5	2.5	25	34	3.1	57
-2	" 023	13.0	6.5	2.5	25	30	3.3	53
-3	" 024	16.0	8.0	2.5	30	25	3.4	50
-4	" 025	20.0	10.0	2.5	30	20	3.5	43
-5	" 026	22.0	11.0	2.5	30	14	4.0	43
-6	" 027	30.0	15.0	2.5	30	10	4.5	40
-7	" 028	36.0	18.0	2.5	30	9	5.0	40
-8	" 029	47.0	24.0	2.5	30	6.5	5.7	39
-9	" 030	56.0	28.0	2.5	30	6.3	7.0	35
-10	" 031	68.0	34.0	2.5	30	6.2	8.0	30
-11	" 032	75.0	38.0	2.5	30	5.9	9.0	30
-12	" 033	86.0	43.0	2.5	30	5.6	10.0	28
-13	" 034	100.0	50.0	.79	28	5.4	12.0	27
-14	" 035	120.0	60.0	.79	25	4.4	14.0	25
-15	" 036	470.0	240.0	.79	20	2.1	30.0	16
-16	" 037	680.0	340.0	.79	20	2.0	35.0	15
-17	LT11V038	1 mH	.5 mH	.79	20	1.1	75.0	11

1/ The dash number added to the MS Military Standard number constitutes the MS part number for example MS53230-1

(A) denotes change

P A ARMY-ER	International Interest	TITLE COILS, RADIO FREQUENCY, ENCAPSULATED, VARIABLE, MICRO-MINIATURE, (FERRITE CORE), TYPES LT11V022 TO LT11V038, INCL	MILITARY STANDARD
Other Cust AF-85 NAVY-EC			MS53230
Procurement Specification MIL-C-15305		SUPERSEDES	PAGE 1 OF 3

DD FORM 672 (Coordinated) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

5950-0655-2

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

User activities
Army - AR
Navy - AS, SH, MC
Air Force - 19Review activities
Army - MI
Navy - OS
Air Force - 11, 17, 80
DLA - ES

This military standard is approved for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document when applicable.

APPROVED 18 AUG 76 REVISED (A) 31 October 1985

FED SUP CLASS
5950

ELECTRICAL CHARACTERISTICS (final)				
Inspection group	Allowable variations from initial measurements			
	Inductance	DCR	SRF	Q
	Percent		Percent	Percent
Qualification				
Group II	+5	---	---	-10
Group III	+5	+(3% +.001 ohm)	-15	-20
Group IV	+5	+(3% + .001 ohm)	-10	-20
Quality Conformance Inspection				
Group C				
Subgroup I	+5	---	---	-10
Subgroup II	+5	+(3% + .001 ohm)	-10	-20
Subgroup III	+5	+(3% + .001 ohm)	-15	-20

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance is $\pm .003$ (0.08 mm).
4. Lead material: .017 x .025 (0.43 mm x 0.64 mm) copper - 120 (3.05 mm) long
5. The test fixture in the diagram following shall be used for electrical measurements. Inductance values are effective inductance as indicated on a HP260A, HP190A or equivalent Q meter, when tested in the test fixture. Add 5% to Q reading to account for loss of Q in the test jig.
6. Polarization during the moisture resistance test is not applicable.
7. Shock, specified pulse, method 213, test condition I, is applicable.
8. Coils are held rigidly by the body during vibration and mechanical shock testing
9. Barometric pressure test (test condition C) is applicable
10. Resistance to soldering heat test, per MIL-STD-202, method 216, test condition B, is applicable.
11. For dielectric withstanding voltage, barometric pressure and insulation resistance units shall be placed on flat metal plate with leads insulated from surface. Measurement of dielectric withstanding voltage, barometric pressure and insulation resistance shall be between the leads of the coil connected together and the metal plate.
12. Screw core assembly shall be set at maximum specified inductance value indicated in the electrical characteristics table (initial), prior to all inspection tests. This setting shall not be changed until electrical characteristics (final) measurements are performed
13. The marking shall be as specified in MIL-C-15305 except that the marking shall be on the unit package or container.
14. This standard takes precedence over the procurement specification referenced herein.
15. Referenced document shall be the issue in effect on the date of invitation for bid.

P A ARMY-ER	International Interest	TITLE COILS, RADIO FREQUENCY, ENCAPSULATED, VARIABLE, MICRO-MINIATURE, (FERRITE CORE), TYPES LT11V022 TO LT11V038, INCL	MILITARY STANDARD
Other Cust AF-85 NAVY-EC			MS53230
Procurement Specification MIL-C-15305	SUPERSEDES		PAGE 2 OF 3

DD FORM 672 (Coordinated) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

Army - M I
Navy -
Air Force - 11, 17, 80
DLA-ES

Review activities

User activities

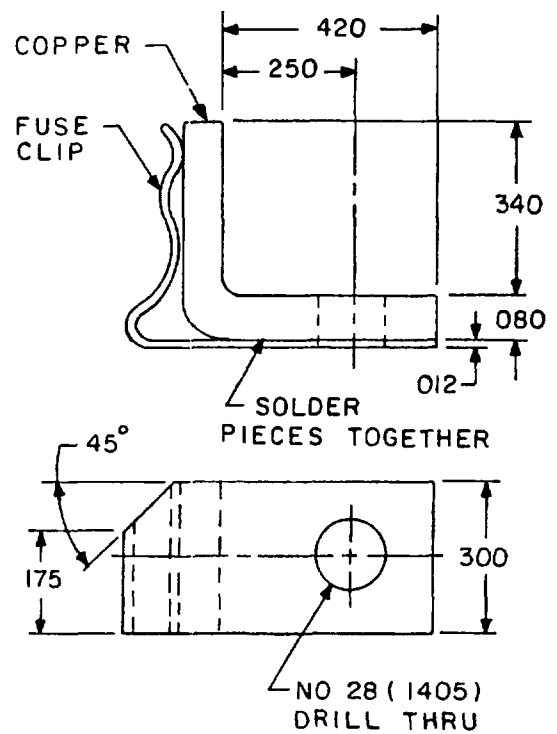
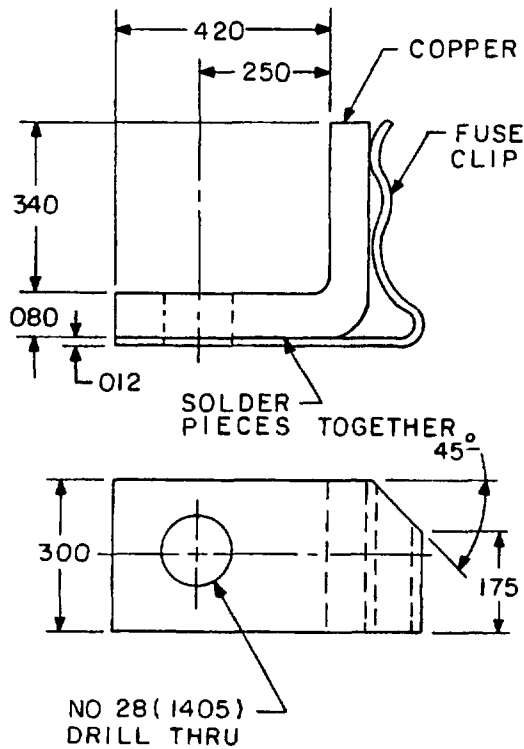
Army - AR
Navy - AS, SH, MC
Air Force - 19

This military standard is approved for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document when applicable.

APPROVED 18 AUG 76 REVISED (A) FOR CHANGES SEE PAGE 1

FED SUP CLASS
5950User activities
Army - AR
Navy - AS, SH, MC
Air Force - 19Review activities
Army - MI
Navy - OS
Air Force - 11, 17, 80
DLA - ES

This military standard is approved for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document when applicable.



TEST FIXTURES FOR ELECTRICAL MEASUREMENTS

SIDE B

INCHES	MM
.012	0 30
.080	2 03
.1405	3 570
.175	4 45
.250	6 35
.300	7 62
.340	8 64
.420	10 67

SIDE A

APPROVED 18 AUG 76 REVISED (A) FOR CHANGES SEE PAGE 1

PA ARMY-ER

International
Interest

TITLE

COILS, RADIO FREQUENCY,
ENCAPSULATED, VARIABLE, MICRO-
MINIATURE, (FERRITE CORE), TYPES
LT11V022 TO LT11V038, INCL

MILITARY STANDARD

Other Cust
AF-85
NAVY-EC

MS53230

Procurement Specification
MIL-C-15305

SUPERSEDES

PAGE 3 OF 3

DD FORM 672 (Coordinated) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
1 MAY 73