

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

User activities

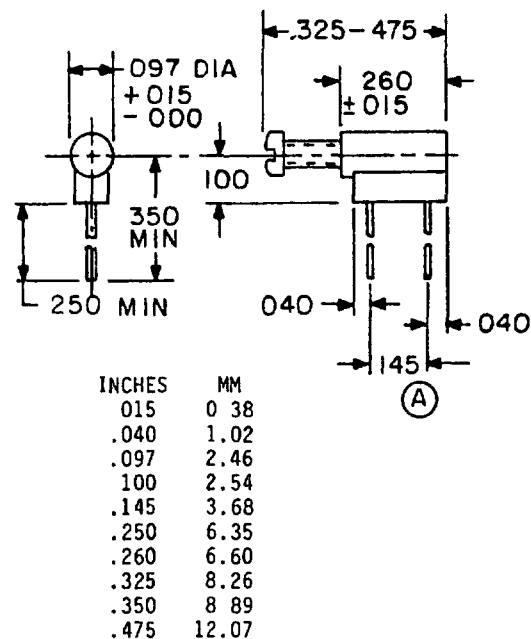
Army - MI  
Navy - OS  
Air Force - 11, 17, 80  
DLA - ES

Review activities

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### 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	225 mW max
Dielectric withstanding voltages	
Sea level	1,000 V rms min
Reduced barometric pressure	300 V rms min
Terminal pull	
-1 through -13	2 lb min
-14 through -17	1 lb min
Tuning torque	.005 - 15 in oz.
Stop torque	.2 in oz. max
Altitude	70,000 feet
Weight	.2 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 $\mu$ H	L Min $\mu$ H					
-1	LT11V060	10.0	5.5	2.5	25	40	2.8	57
-2	" 061	13.0	6.5	2.5	25	35	3.0	53
-3	" 062	16.0	8.0	2.5	30	26	3.4	50
-4	" 063	20.0	10.0	2.5	30	20	3.5	43
-5	" 064	22.0	11.0	2.5	30	14	4.0	43
-6	" 065	30.0	15.0	2.5	30	10	4.5	40
-7	" 066	36.0	18.0	2.5	30	9	5.0	40
-8	" 067	47.0	24.0	2.5	30	6.5	5.7	39
-9	" 068	56.0	28.0	2.5	30	6.3	7.0	35
-10	" 069	68.0	34.0	2.5	30	6.2	8.0	30
-11	" 070	75.0	38.0	2.5	30	5.9	9.0	30
-12	" 071	86.0	43.0	2.5	30	5.6	10.0	28
-13	" 072	100.0	50.0	.79	30	5.4	12.0	27
-14	" 073	120.0	60.0	.79	25	4.4	14.0	25
-15	" 074	470.0	240.0	.79	20	2.1	30.0	16
-16	" 075	680.0	340.0	.79	20	2.0	35.0	15
-17	LT11V076	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 MS53232-1.

(A) denotes change

P A ARMY-ER	International interest	TITLE COILS, RADIO FREQUENCY, ENCAPSULATED, VARIABLE, MICRO- MINIATURE, (FERRITE-CORE), TYPES LT11V060 TO LT11V076, INCL	MILITARY STANDARD
Other Cust AF-85 NAVY-EC			MS53232
Procurement Specification MIL-C-15305		SUPERSEDES	PAGE 1 OF 3

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

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APPROVED 18 AUG 76 REVISED (A) 31 October 1985

FED SUP CLASS  
5950

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ELECTRICAL CHARACTERISTICS (final)				
Inspection group	Allowable variation from initial measurements			
	Inductance	DCR	SRF	Q
	Percent		Percent	Percent
Qualification				
Group II	+5	---	---	-10
Group III	+10	+(2% + 001 ohm)	-15	-20
Group IV	+5	+(2% + 001 ohm)	-10	-20
Quality Conformance Inspection				
Group C				
Subgroup I	+5	---	---	-10
Subgroup II	+5	+(2% + 001 ohm)	-10	-20
Subgroup III	+10	+(2% + 001 ohm)	-15	-20

## NOTES:

- Dimensions are in inches.
- Metric equivalents are given for general information only.
- Unless otherwise specified, tolerance is  $\pm 0.005$  (0.13 mm).
- Lead material: -1 through -13 is .018 (0.46 mm) diameter gold-plated Kovar.  
-14 through -17 is .013 (0.33 mm) diameter gold-plated Kovar.
- The test fixture in the diagram following shall be used for electrical measurements. Inductance values are effective inductance as indicated on a HP260A, or equivalent Q meter, when tested in the test fixture. Add 5% to Q reading to account for loss of Q in test jig.
- Polarization during the moisture resistance test is not applicable.
- Shock, specified pulse, method 213, test condition I, is applicable.
- Coils are held rigidly by the body during vibration and mechanical shock testing.
- Barometric pressure test (test condition C) is applicable.
- Resistance to soldering heat test, per MIL-STD-202, method 216, test condition B, is applicable.
- 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.
- 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.
- The marking shall be as specified in MIL-C-15305 except that the marking shall be on the unit package or container.
- This standard takes precedence over the procurement specification referenced herein.
- Referenced document shall be the issue in effect on the date of invitation for bid.

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 LT11V060 TO LT11V076, INCL	MILITARY STANDARD
Other Cust AF-85 NAVY-EC			MS53232
Procurement Specification MIL-C-15305	SUPERSEDES		PAGE 2 OF 3

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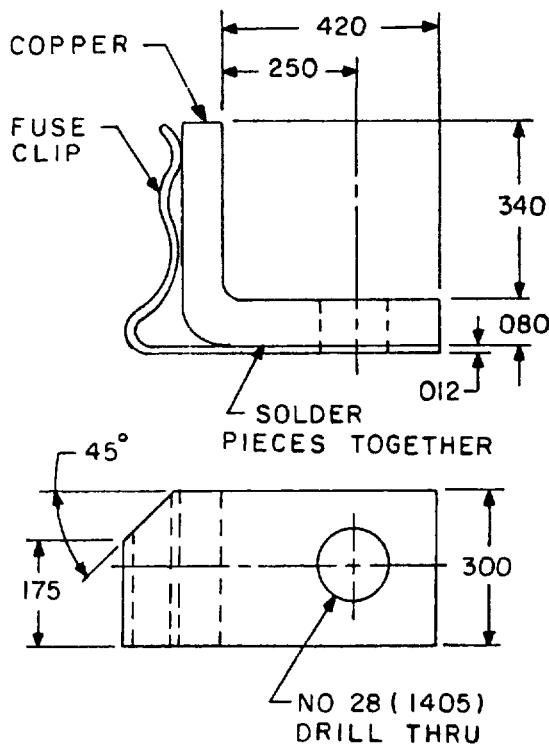
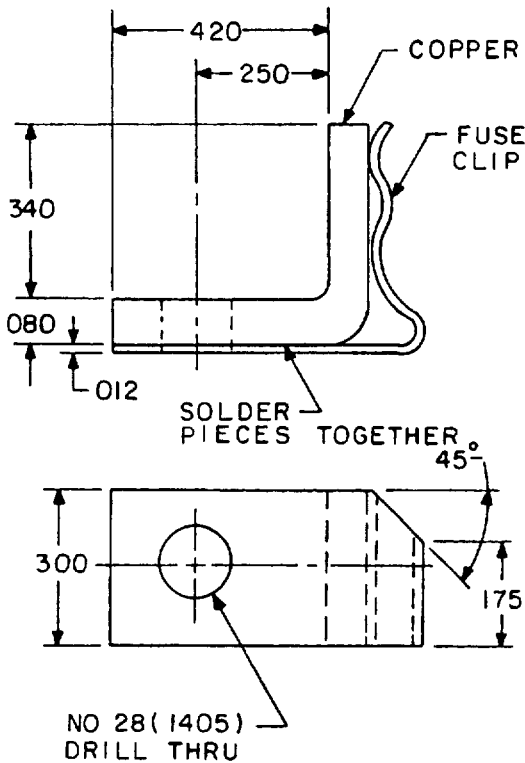
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TEST FIXTURES FOR ELECTRICAL MEASUREMENTS

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

PA ARMY-ER	International Interest	TITLE COILS, RADIO FREQUENCY, ENCAPSULATED, VARIABLE, MICRO-MINIATURE, (FERRITE-CORE), TYPES LT11V060 TO LT11V076, INCL.	MILITARY STANDARD
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