

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

User activities

OS
Air Force - 11, 17, 80
DLA - ES

Army - M1
Navy -

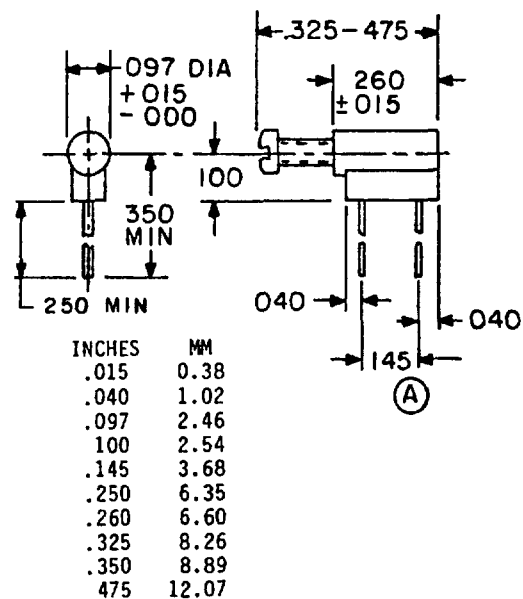
Review activities

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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 2 lb min
Tuning torque .005 - .15 in oz
Stop torque .2 in. oz. max
Altitude 70,000 feet
Weight .2 gram max

FED SUP CLASS
5950



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	LT11V039	.025	.020	200	50	1,000	.02	250
-2	" 040	.051	.035	100	40	700	.03	250
-3	" 041	.076	.040	100	40	615	.10	250
-4	" 042	.10	.07	25	30	500	.3	250
-5	" 043	.15	.11	25	30	420	.35	200
-6	" 044	.22	.16	25	30	400	.4	180
-7	" 045	.27	.19	25	30	400	.5	180
-8	" 046	.33	.165	25	30	320	.6	140
-9	" 047	.47	.34	25	30	290	.65	100
-10	" 048	.56	.40	25	30	250	.75	100
-11	" 049	.68	.50	25	30	240	.85	100
-12	" 050	.82	.59	25	30	180	.9	100
-13	" 051	1.0	.50	7.9	25	140	.4	125
-14	" 052	1.5	1.0	7.9	25	135	.8	100
-15	" 053	2.2	1.2	7.9	25	100	1.4	80
-16	" 054	2.7	1.95	7.9	25	60	1.6	75
-17	" 055	3.3	2.2	7.9	25	60	1.8	65
-18	" 056	4.7	2.5	7.9	25	50	2.2	60
-19	" 057	5.8	2.9	7.9	25	38	2.8	58
-20	" 058	6.8	3.4	7.9	25	36	3.0	55
-21	LT11V059	8.2	4.6	7.9	25	25	3.0	50

1/ The dash number added to the MS Military Standard number constitutes the MS part number. for example MS53231-1

(A) denotes change

P A ARMY-ER	International Interest	TITLE COILS, RADIO FREQUENCY, ENCAPSULATED, VARIABLE, MICRO-MINIATURE, (IRON CORE), TYPES LT11V039 TO LT11V059, INCL.	MILITARY STANDARD
Other Cust AF- 85 NAVY-EC			MS53231
Procurement Specification MIL-C-15305		SUPERSEDES	PAGE 1 OF 3

DD FORM 1 MAY 72 672 (Coordinated) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

5950-0655-3

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APPROVED 18 AUG 76 REVISED (A) 31 October 1985

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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	+5	+(2% +.001 ohm)	-5	-10
Group IV	+	+(2% +.001 ohm)	-10	-10
Quality Conformance Inspection				
Group C				
Subgroup I	+5	---	---	-10
Subgroup II	+5	+(2% + .001 ohm)	-10	-10
Subgroup III	+5	+(2% +.001 ohm)	-5	10

NOTES:

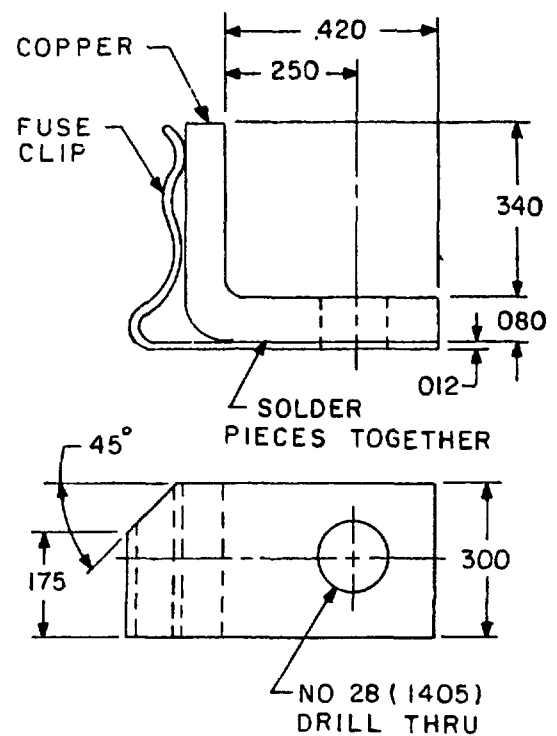
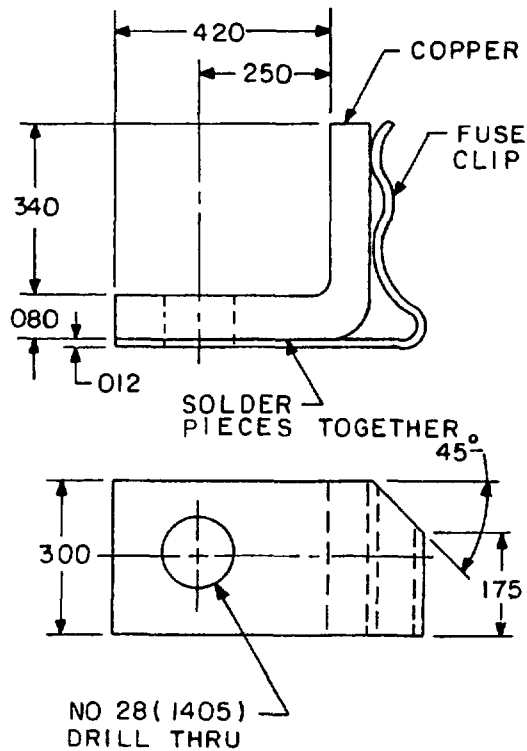
1. Dimensions are in inches
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerance is ± 0.005 (0.13 mm)
4. Lead material. -1 through -12 is .018 (0.46 mm) diameter copper
-13 through -21 is .018 (0.46 mm) diameter gold-plated Kovar.
5. The test fixture in the diagram following shall be used for electrical measurements
6. Polarization during the moisture resistance test is not applicable
7. Shock, specified pulse, method 213, test condition 1, 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, (IRON CORE), TYPES LT11V039 TO LT11V059, INCL	MILITARY STANDARD
Other Cust AF-85 NAVY-EC			MS53231
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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

P A ARMY-ER

International
Interest

TITLE

COILS, RADIO FREQUENCY,
ENCAPSULATED, VARIABLE, MICRO-
MINIATURE, (IRON CORE), TYPES
LT11V039 TO LT11V059, INCL.

MILITARY STANDARD

Other Cust
AF-85
NAVY-EC

MS53231

Procurement Specification
MIL-C-15305

SUPERSEDES

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