

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

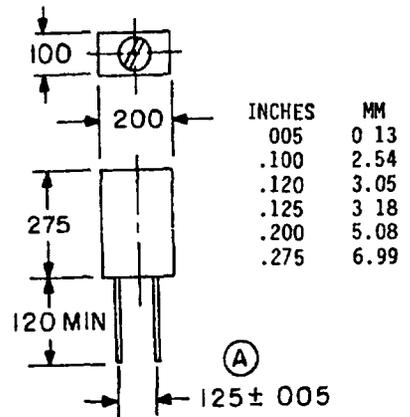
User activities

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

Review activities

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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	2 lbs. 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. µH	L Min. µH					
-1	LT11V001	.025	.020	200	50	1,000	.02	250
-2	" 002	.051	.035	100	40	700	.03	250
-3	" 003	.076	.055	100	40	615	.10	250
-4	" 004	.10	.07	25	30	500	.3	250
-5	" 005	.15	.11	25	30	420	.35	200
-6	" 006	.22	.16	25	30	400	.4	180
-7	" 007	.27	.19	25	30	400	.5	180
-8	" 008	.33	.24	25	30	320	.6	140
-9	" 009	.47	.34	25	30	290	.65	100
-10	" 010	.56	.40	25	30	250	.75	100
-11	" 011	.68	.50	25	30	240	.85	100
-12	" 012	.82	.59	25	30	180	.9	100
-13	" 013	1.0	.50	7.9	25	140	1.2	125
-14	" 014	1.5	1.0	7.9	25	135	1.6	100
-15	" 015	2.2	1.2	7.9	25	100	2.0	80
-16	" 016	2.7	1.95	7.9	25	60	2.2	75
-17	" 017	3.3	2.2	7.9	25	60	2.5	65
-18	" 018	4.7	2.5	7.9	25	50	2.6	60
-19	" 019	5.8	2.9	7.9	25	38	2.8	58
-20	" 020	6.8	3.4	7.9	25	30	3.0	55
-21	LT11V021	8.2	4.6	7.9	25	20	3.0	50

1/ The dash number added to the MS Military Standard number constitutes the MS part number for example MS53229-1.

(A) denotes change

P A ARMY-ER	International interest	TITLE COILS, RADIO FREQUENCY, ENCAPSULATED, VARIABLE, MICRO-MINIATURE, (IRON CORE), TYPES LT11V001 TO LT11V021, INCL.	MILITARY STANDARD
Other Cust AF-85 NAVY-EC			MS53229
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  
5950User activities  
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Air Force - 19Review activities  
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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	+(3% +.001 ohm)	-8	-10
Group IV	+5	+(3% +.001 ohm)	-10	-10
Quality				
Conformance				
Inspection				
Group C				
Subgroup I	+5	---	---	-10
Subgroup II	+5	+(3% +.001 ohm)	-10	-10
Subgroup III	+5	+(3% +.001 ohm)	-8	-10

## NOTES:

- Dimensions are in inches.
- Metric equivalents are given for general information only.
- Unless otherwise specified, tolerance is  $\pm 0.003$  (0.08 mm).
- Lead material .017 x .025 (0.43 mm x 0.64 mm) copper - 120 (3.05 mm) long.
- 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.
- 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

P A ARMY-ER	International Interest	TITLE COILS, RADIO FREQUENCY, ENCAPSULATED, VARIABLE, MICRO- MINIATURE, (IRON CORE), TYPES LT11V001 TO LT11V021, INCL.	MILITARY STANDARD
Other Cust AF-B5 NAVY-EC			MS53229
Procurement Specification MIL-C-15305	SUPERSEDES:		PAGE 2 OF 3

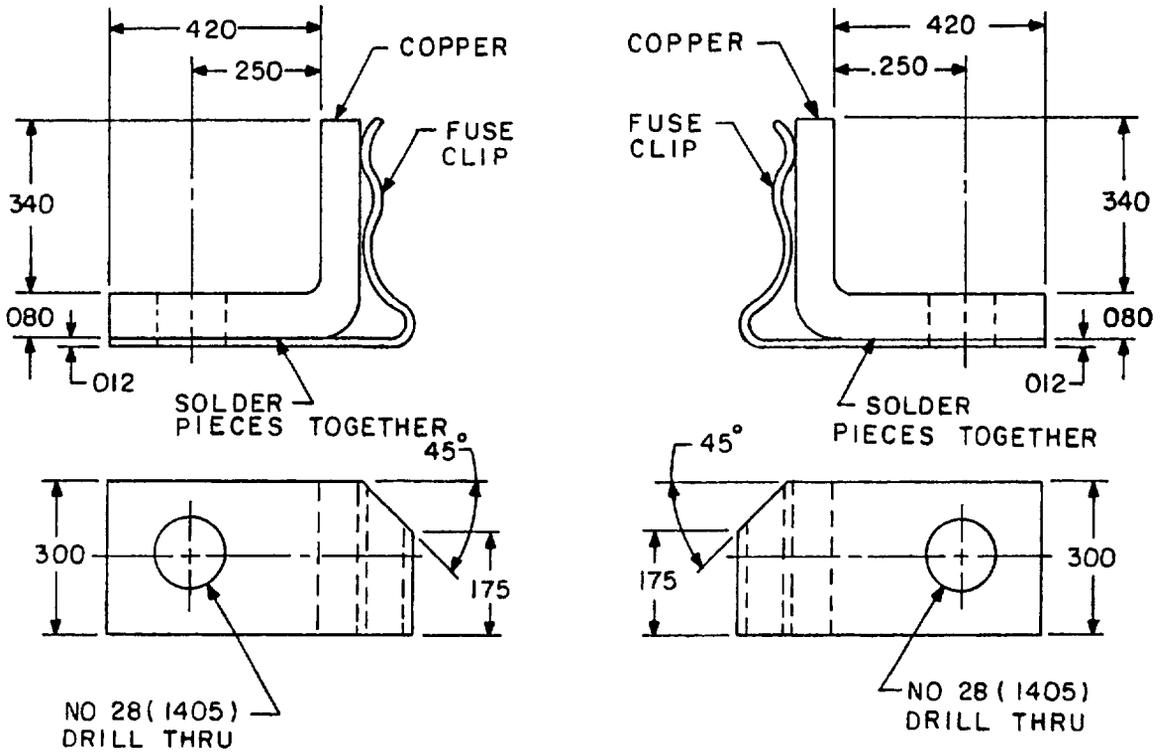
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TEST FIXTURES FOR ELECTRICAL MEASUREMENTS

	INCHES	MM	
	.012	0.30	
	.080	2.03	
SIDE B	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

P A ARMY-ER Other Cust AF-85 NAVY-EC	International Interest	TITLE	MILITARY STANDARD
		COILS, RADIO FREQUENCY, INCAPSULATED, VARIABLE, MICRO-MINIATURE, (IRON CORE), TYPES LT11V001 TO LT11V021, INCL	MS53229
Procurement Specification MIL-C-15305		SUPERSEDES:	PAGE 3 OF 3