



D SEE NOTE 6

RATINGS	
STYLE	LT10
GRADE	1
CLASS	A
TEMPERATURE RISE	15°C
AMBIENT TEMPERATURE	90°C
OPERATING TEMPERATURE	-55° to +105°C
DIELECTRIC WITHSTANDING VOLTAGE (sea level)	200 V rms
DIELECTRIC WITHSTANDING VOLTAGE (reduced barometric pressure)	80 V rms
TERMINAL PULL	3 pounds
ALTITUDE	70,000 feet
PERCENT COUPLING	3% max.
WEIGHT	.250 grams max.

Ltr	Dimensions in inches with metric equivalents (mm) in parentheses	
	Minimum	Maximum
A	.085 (2.16)	.105 (2.67)
B	.240 (6.10)	.260 (6.60)
C	1.380 (35.05)	1.620 (41.15)
D	.015 (.38)	.0215 (.55)

Electrical characteristics (initial)								
Dash No. 1/	Type designation	Inductance ±10% μH	Test frequency MHz	Q Min.	Self-resonant frequency Min. MHz	DC resistance Max. at 25°C ohms	Rated DC current mA	Incremental current mA
-1	LT10K	120	.79	31	13	5.8	88	27
-2	LT10K	150	.79	33	12	7.9	75	24
-3	LT10K	180	.79	33	11	9.4	69	22
-4	LT10K	220	.79	35	10	11.0	64	20
-5	LT10K	270	.79	37	9	12.0	61	18
-6	LT10K	330	.79	40	8	16.0	53	16
-7	LT10K	390	.79	38	7.8	21.0	46	14
-8	LT10K	470	.79	36	7.5	24.0	43	13
-9	LT10K	560	.79	36	7.0	28.0	40	12

1/ The dash number added to the MS (military standard) number constitutes the MS part number, for example MS21427-1.

ⓑ denotes changes

User activities: 19

Review activities: 11,17

This military standard is approved for use by 2750th ABW/ES Department of the Air Force, and is available for use by all Departments and Agencies of the Department of Defense.

P.A AF - 85	International interest	TITLE ⓑ COILS, RADIO FREQUENCY, MOLDED, FIXED, MICRO-MINIATURE, MAGNETICALLY SHIELDED (FERRITE CORE-FERRITE SLEEVE) TYPE LT10K	MILITARY STANDARD
Other Cust			MS21427 (USAF)
Procurement Specification MIL-C-15305		SUPERSEDES:	PAGE 1 OF 2

APPROVED 31 MAR 1976 REVISED ⓐ ⓑ Ⓒ 6 APR 1984 ⓑ 31 OCT 1984

Electrical characteristics (Final)

Inspection group	Allowable variation from initial measurement		Allowable % variation from specified minimum value in Electrical Characteristics (initial) table	
	Inductance	DC resistance	Self-resonant frequency	Q
	Percent			
Qualification inspection				
Group II	+5	---	---	-15
Group III	+10	+3% (+.001 ohm)	-15	-20
Group IV	+10	+3% (+.001 ohm)	-15	-20
Quality conformance inspection				
Group C				
Subgroup I	+5	---	---	-15
Subgroup II	+10	+3% (+.001 ohm)	-15	-20
Subgroup III	+10	+3% (+.001 ohm)	-15	-20

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Barometric pressure test (test condition C) is applicable.
4. Shock, specified pulse, method 213, test condition I, is applicable.
5. These coils are intended to be supported by their leads.
6. Solderable/weldable lead wire, AWG No. 26.
7. The SRF minimum values tabulated exceeding 250 MHz are estimates and to be used for reference only.
8. Polarization during moisture resistance test is not applicable.
9. Terminal strength twist test, per MIL-STD-202, method 211, test condition D, except 180° rotation for a total of 540°.
10. Referenced document shall be the issue in effect on date of invitation for bid.
11. This standard takes precedence over the procurement specification referenced herein.

APPROVED 31 MAR '76 REVISED (A) FOR CHANGE (B) FOR CHANGES SEE PAGES 1 & 2

P.A AF -85 Other Cust	International interest	TITLE (B) COILS, RADIO FREQUENCY, MOLDED, FIXED, MICRO-MINIATURE, MAGNETICALLY SHIELDED (FERRITE CORE-FERRITE SLEEVE) TYPE LT10K	MILITARY STANDARD <b>MS21427</b> (USAF)
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