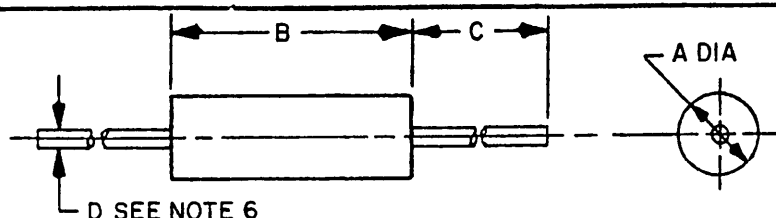


User activities:

Review activities:

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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	1.250 (31.75)	1.626 (41.30)
D	.0185 (.47)	.0215 (.55)

(B)

RATINGS	
Style	LT4
Grade	1
Class	B
Temperature rise	35°C
Ambient temperature	90°C
Operating temperature	-55° to +125°C
Dielectric withstanding voltage (sea level)	300 volts rms for a minimum of 60 sec.
Dielectric withstanding voltage (reduced barometric pressure)	100 volts rms for a minimum of 60 sec.
Terminal pull	3 pounds
Altitude	70,000 feet
Percent coupling	5 percent max.
Weight	.15 grams max.

(B)

(B) REINSTATED FOR DESIGN AFTER 10 MAY 83

Electrical characteristics (initial)							
Dash no.	Type designation	Inductance ±10%	Q min	Test frequency	Self-resonant frequency min	DC resistance at 25°C max	Max rated DC current
		μ h		MHz	MHz	ohms	mA
-1	LT4K	.10	52	25	500	.060	1500
-2	LT4K	.12	52	25	480	.070	1400
-3	LT4K	.15	52	25	450	.080	1300
-4	LT4K	.18	55	25	430	.090	1200
-5	LT4K	.22	55	25	390	.11	1100
-6	LT4K	.27	55	25	340	.12	1000

(B) DENOTES CHANGES

P.A AF 85	International Interest	TITLE COILS, RADIO FREQUENCY, MOLDED, FIXED, MICRO-MINIATURE, MAGNETICALLY SHIELDED (IRON CORE - IRON SLEEVE) TYPE LT4K	MILITARY STANDARD
Other Cust			MS21396 (85)
Procurement Specification MIL-C-15305		SUPERSEDES:	PAGE 1 OF 3

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Electrical characteristics (initial) continued

Dash no.	Type designation	Inductance ±10%	Q min	Test frequency	Self-resonant frequency min	DC resistance at 25°C max	Max rated DC current
		<u>μh</u>		<u>MHz</u>	<u>MHz</u>	<u>ohms</u>	<u>mA</u>
-7	LT4K	.33	52	25	310	.14	950
-8	LT4K	.39	52	25	280	.16	900
-9	LT4K	.47	50	25	250	.20	800
-10	LT4K	.56	50	25	220	.25	750
-11	LT4K	.68	48	25	200	.27	700
-12	LT4K	.82	48	25	180	.36	600
-13	LT4K	1.0	45	25	165	.40	525
-14	LT4K	1.2	45	7.9	150	.70	425
-15	LT4K	1.5	45	7.9	130	.80	400
-16	LT4K	1.8	45	7.9	120	.90	350
-17	LT4K	2.2	45	7.9	110	1.3	320
-18	LT4K	2.7	45	7.9	100	1.8	275
-19	LT4K	3.3	42	7.9	70	1.7	290
-20	LT4K	3.9	45	7.9	65	1.8	275
-21	LT4K	4.7	45	7.9	58	2.6	225
-22	LT4K	5.6	45	7.9	54	2.9	210
-23	LT4K	6.8	45	7.9	50	3.3	200
-24	LT4K	8.2	45	7.9	48	4.5	170
-25	LT4K	10	45	7.9	45	4.8	165

REVISED Ⓐ FOR CHANGES SEE PAGE 1 Ⓑ FOR CHANGES SEE PAGES 1 THRU 3

APPROVED 3 OCT 1973

P.A AF 85

Other Cust

International
interest

TITLE COILS, RADIO FREQUENCY, MOLDED,
FIXED, MICRO-MINIATURE, MAGNETICALLY
SHIELDED (IRON CORE - IRON SLEEVE)
TYPE LT4K

MILITARY STANDARD

MS21396 (85)

Procurement Specification
MIL-C-15305

SUPERSEDES:

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User activities:

Review activities:

Electrical characteristics (Final)

Inspection Group	Allowable variation from initial measurement		Allowable % from specified minimum value in Electrical Characteristics (initial) table	
	Inductance	DC resistance	Self resonant frequency	Q
	Percent			
Qualification Inspection				
Group II	± 5	----	----	-10
Group III	± 5	± (3% + .001 ohm)	-8	-10
Group IV	± 5	± (2% + .001 ohm)	-5	-10
Quality Conformance Inspection				
Group C				
Subgroup I	± 5	----	----	-10
Subgroup II	± 5	± (2% + .001 ohm)	-5	-10
Subgroup III	± 5	± (3% + .001 ohm)	-5	-10

NOTES:

- Barometric pressure test (test condition C) is applicable.
- Shock, specified pulse, method 213, test condition I, is applicable.
- These coils are intended to be supported by their leads.
- After the overload test is performed, a period of 24 hours shall elapse prior to taking electrical characteristics (final) measurements.
- DC resistance shall be the last measurement taken in the electrical characteristics test sequence.
- Tinned copper wire lead AWG 24.
- Dimensions are in inches.
- Metric equivalents are given for general information only and are based upon 1 inch = 25.4 mm.
- Referenced document shall be the issue in effect on date of invitation for bid.
- This standard takes precedence over the procurement specification referenced herein.
- The dash number added to the MS military standard number constitutes the MS part number, for example, MS21396-1.

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P.A AF 85	International Interest	TITLE COILS, RADIO FREQUENCY, MOLDED, FIXED, MICRO-MINIATURE, MAGNETICALLY SHIELDED (IRON CORE - IRON SLEEVE) TYPE LT4K	MILITARY STANDARD
Other Cust			MS21396 (85)
Procurement Specification MIL-C-15305	SUPERSEDES:		PAGE 3 OF 3

