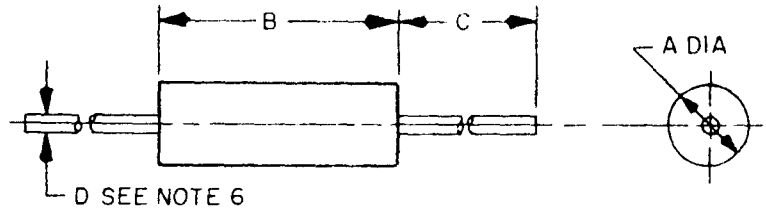
FED. SUP CLASS
5950



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) (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	Incremental current
		µh		MHz	MHz	ohms	mA	mA
-1	LT4K	12	45	2.5	40	2.0	250	230
-2	LT4K	15	45	2.5	36	2.5	230	180
-3	LT4K	18	45	2.5	31	3.5	195	150
-4	LT4K	22	46	2.5	28	4.5	170	135
-5	LT4K	27	48	2.5	25	5.0	160	115
-6	LT4K	33	48	2.5	23	5.5	150	105

(B) DENOTES CHANGE

APPROVED 3 OCT 1973 REVISED (A) 1 APR 1981 (B) 10 MAY 1983

User activities:

Review activities:

This Military Standard is approved for use by AFALD/PTES (Preparing Activity), (Department of the AF) and is available for use by all Departments and Agencies of the Department of Defense.

P.A AF 85 Other Cust	International interest	TITLE COILS, RADIO FREQUENCY, MOLDED, FIXED, MICRO-MINIATURE, MAGNETICALLY SHIELDED, (FERRITE CORE-FERRITE SLEEVE) TYPE LT4K	MILITARY STANDARD MS21397(85)
Procurement Specification MIL-C-15305		SUPERSEDES:	PAGE 1 OF 3

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	Incremental current
		µh		MHz	MHz	ohms	mA	mA
-7	LT4K	39	48	2.5	22	7.0	140	100
-8	LT4K	47	50	2.5	21	7.5	135	95
-9	LT4K	56	52	2.5	19	8.0	130	90
-10	LT4K	68	55	2.5	18	9.0	120	83
-11	LT4K	82	55	2.5	16	14	95	65
-12	LT4K	100	55	2.5	14	16	90	70
-13	LT4K	120	34	.79	9.5	10	115	40
-14	LT4K	150	34	.79	8.8	12	105	35
-15	LT4K	180	34	.79	8.1	15	90	32
-16	LT4K	220	36	.79	7.8	20	80	30
-17	LT4K	270	36	.79	7.3	23	75	27
-18	LT4K	330	36	.79	6.8	26	70	25
-19	LT4K	390	36	.79	6.0	35	65	23
-20	LT4K	470	38	.79	5.6	37	60	21
-21	LT4K	560	40	.79	5.0	40	58	20
-22	LT4K	680	40	.79	4.3	48	54	18
-23	LT4K	820	40	.79	3.8	54	47	17
-24	LT4K	1000	40	.79	3.5	65	43	15

APPROVED 3 OCT 1973 REVISED (A) FOR CHANGES SEE PAGE 1 (B) FOR CHANGES SEE PAGES 1 THRU 3

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	±10	±(5% + .001 ohm)	-15	-20
Group IV	±5	±(2% + .001 ohm)	-5	-20
Quality conformance inspection				
Group C				
Subgroup I	±5	----	----	-10
Subgroup II	±5	±(2% + .001 ohm)	-5	-20
Subgroup III	±10	±(5% + .001 ohm)	-15	-20

NOTES:
1. Barometric pressure test (test condition C) is applicable.
2. Shock, specified pulse, method 213, test condition I, is applicable.
3. These coils are intended to be supported by their leads.
4. After the overload test is performed, a period of 24 hours shall elapse prior to taking electrical characteristics (final) measurements.
5. DC resistance shall be the last measurement taken in the electrical characteristics test sequence.
6. Tinned copper wire lead AWG 24.
7. (B) Dimensions are in inches.
8. Metric equivalents are given for general information only and are based upon 1 inch = 25.4 mm.
9. Referenced document shall be the issue in effect on date of invitation for bid.
10. This standard takes precedence over the procurement specification referenced herein.
11. The dash number added to the MS military standard number constitutes the MS part number, for example, MS21397-1.

User activities:
Review activities:
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REVISED (A) FOR CHANGES SEE PAGE 1 (B) FOR CHANGES SEE PAGES 1 THRU 3
APPROVED 3 OCT 1973