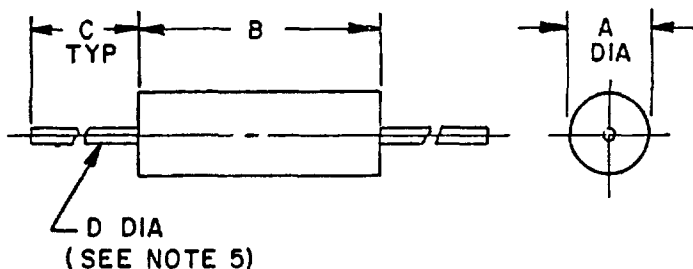


FED. SUP CLASS  
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## Ratings

Style	LT4
Grade	1
Class	B
Operating temperature range	-55°C to +125°C
Ambient temperature	90°C max
Temperature rise	35°C max
Power dissipation	.33 watt max
Dielectric withstanding voltage:	
Sea level	700 V rms min
Reduced barometric pressure	100 V rms min
Terminal pull	5 pounds min
Weight	2.0 grams max
Altitude	60,000 feet

Ltr	Dimensions in inches with metric equivalents (mm) in parentheses.	
	Minimum	Maximum
A	.230 ( 4.27)	.250 ( 6.35)
B	.580 (10.67)	.600 (15.24)
C	1.30 (33.02)	
D	.0265 ( 0.67)	.0305 ( 0.77)

## Electrical characteristics (initial)

Dash No. 1/	Type designation B	Inductance	Test frequency B		Q (Min)	Self resonant frequency 3/ B	DC resistance (Max)	Rated DC current (Max)
			Q	L 2/				
		$\mu\text{H}$		$\text{MHz}$		$\text{MHz}$	$\text{ohms}$	$\text{mA}$
01	LT4K	1.0 $\pm$ 20%	15	25	100	170	.04	2700
02	LT4K	1.2 $\pm$ 10%	15	7.9	100	155	.04	2700
03	LT4K	1.5	10	7.9	100	140	.04	2700
04	LT4K	1.8	10	7.9	95	125	.05	2500
05	LT4K	2.2	10	7.9	95	110	.05	2500
06	LT4K	2.7		7.9	68	95	.05	2500
07	LT4K	3.3		7.9	60	90	.05	2500
08	LT4K	3.9		7.9	60	87	.07	2100
09	LT4K	4.7		7.9	60	75	.09	1800
10	LT4K	5.6		7.9	65	70	.14	1550
11	LT4K	6.8		7.9	70	65	.17	1300
12	LT4K	8.2		7.9	65	57	.25	1150
13	LT4K	10 $\pm$ 10%	5.0	7.9	65	50	.32	1000
14	LT4K	12 $\pm$ 5%	5.0	2.5	65	45	.47	870
15	LT4K	15	4.0	2.5	75	40	.62	730
16	LT4K	18	4.0	2.5	65	37	.72	660
17	LT4K	22		2.5	65	35	.80	600
18	LT4K	27		2.5	65	31	1.2	520
19	LT4K	33		2.5	80	27	1.5	450
20	LT4K	39 $\pm$ 5%		2.5	80	25	2.3	380

B DENOTES CHANGES

P A AF - 85	International interest	TITLE	MILITARY STANDARD
Other Cust		COILS, RADIO FREQUENCY, MOLDED, FIXED, SUBMINIATURE, IRON CORE, TYPES LT4K	MS21388(85)
Procurement Specification MIL-C-15305		SUPERSEDES	PAGE 1 OF 3

AMSC N/A<sup>RM</sup>  
4 MAY 73 672

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5950-F210-02

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Review activity: DLA - ES User activities

APPROVED 18 JAN 1973 REVISED (A) 2 APR 1973 (B) 28 JUL 86

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Electrical characteristics (initial)

Dash No. 1/	Type designation B	Inductance	Test B frequency		Q (Min)	Self resonant frequency 3/ B	DC resistance (Max)	Rated DC current (Max)
			Q	L 2/				
		$\mu\text{H}$		$\text{MHz}$		$\text{MHz}$	$\text{ohms}$	$\text{mA}$
21	LT4K	47 $\pm$ 5%		2.5	100	24	3.0	300
22	LT4K	56		2.5	100	22	4.2	270
23	LT4K	68		2.5	100	20	5.2	250
24	LT4K	82		2.5	100	18	6.2	220
25	LT4K	100	1.5	2.5	100	17	7.0	200
26	LT4K	120	1.5	.79	95	14	7.5	200
27	LT4K	150	1.0	.79	90	11	8.0	190
28	LT4K	180	1.0	.79	85	9	9.0	185
29	LT4K	220	1.0	.79	85	7	10.0	180
30	LT4K	270	1.0	.79	80	5 5	11.0	172
31	LT4K	330	.80	.79	80	4 5	12.0	165
32	LT4K	390	.80	.79	75	4 0	13.0	157
33	LT4K	470	.80	.79	75	3 5	14 0	150
34	LT4K	560	.80	.79	65	3.1	16.0	145
35	LT4K	680	.80	.79	65	2 7	17 0	140
36	LT4K	820	.80	.79	65	2.5	19.0	132
37	LT4K	1000	.50	.79	70	2.3	21 0	125
38	LT4K	1200	.25		60	2.7	22.0	120
39	LT4K	2200 $\pm$ 5%	.25		70	2.0	30 0	100

1/ The dash number added to the MS military standard number constitutes the MS part number, for example, MS21388-01.

B 2/ "L" = inductance. Where only one frequency is shown, it applies to both Q and L.

B 3/ Minimum self resonant frequency to be not less than 80% of the specified value.

P A AF - 85	International Interest	TITLE COILS, RADIO FREQUENCY, MOLDED, FIXED, SUBMINIATURE, IRON CORE, TYPES LT4K	MILITARY STANDARD
Other Cust			MS 21388(85)
Procurement Specification MIL-C-15305	SUPERSEDES:		PAGE 2 OF 3

FED SUP CLASS  
5950

This military standard is approved for use by the ELECTRONIC SUPPORT DIVISION, Review activity: DLA - ES User activities: AF LC (85), Department of the Air Force, and is available for use by all Departments and Agencies of the Department of Defense.

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		Percent	
Qualification Inspection				
Group II	±2	---	---	-10
Group III	±5	±(3% +.001 ohm)	-8	-10
Group IV	±5	±(2% +.001 ohm)	-10	-10
Quality Conformance Inspection				
Group C				
Subgroup I	±2	---	---	-10
Subgroup II	±5	±(2% +.001 ohm)	-10	-10
Subgroup III	±5	±(3% +.001 ohm)	-8	-10

## NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. These coils are intended to be supported by their bodies.
4. Barometric pressure test (test condition C) is applicable.
5. Tinned copper lead wire AWG #21.
6. Shock, specified pulse, method 213, test condition I, is applicable.
7. Vibration (high frequency), test condition 30G.
8. In the event of a conflict between the text of this standard and the references cited herein, the text of this standard shall take precedence.
9. Referenced Government documents of the issue listed in that issue of the Department of Defense Index of Specifications and Standards (DODISS) specified in the solicitation form a part of this standard to the extent specified herein.

P.A AF - 85	International interest	TITLE	MILITARY STANDARD
Other Cust		COILS, RADIO FREQUENCY, MOLDED, FIXED, SUBMINIATURE, IRON CORE, TYPES LT4K	MS21388(85)
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1 MAY 73

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APPROVED 18 JAN 1973 REVISED (B) For changes see pages 1, 2 &amp; 3