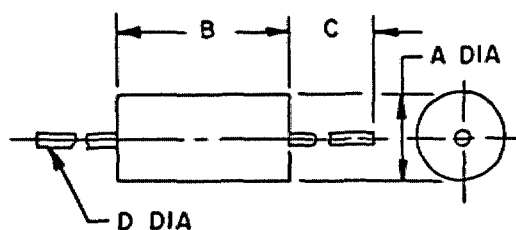


FED. SUP CLASS  
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## Ratings

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	.500 watt max
Dielectric withstanding voltage	
Sea level	700 V rms min
Reduced barometric pressure	100 V rms min
Terminal pull	5 pounds min
Weight	4.1 grams max
Altitude	60,000 feet

Ltr	Dimensions in inches with metric equivalents (mm) in parentheses.	
	Minimum	Maximum
A	.290 (7.37)	.310 (7.87)
B	.880 (22.35)	.900 (22.86)
C	1.300 (33.02)	
D	.0265 (0.67)	.0305 (0.77)

## Electrical Characteristics (initial)

Dash No 1/	Type designation (B)	Inductance	Test (B) frequency		Q (Min)	Self resonant frequency (B) 3/	DC resistance (Max)	Rated DC current (Max)
			Q	L 2/				
		$\mu\text{H}$	MHz			MHz	ohms	mA
01	LT4K	1.0 $\pm 10\%$	15	25	130	170	.03	4000
02	LT4K	1.2	15	7.9	130	155	.03	4000
03	LT4K	1.5	10	7.9	130	140	.03	4000
04	LT4K	1.8	10	7.9	130	125	.03	4000
05	LT4K	2.2	10	7.9	130	115	.04	3500
06	LT4K	2.7	10	7.9	100	102	.04	3500
07	LT4K	3.3		7.9	100	90	.04	3500
08	LT4K	3.9		7.9	80	85	.05	3100
09	LT4K	4.7		7.9	75	80	.05	3100
10	LT4K	5.6		7.9	65	72	.06	3000
11	LT4K	6.8		7.9	65	65	.06	3000
12	LT4K	8.2		7.9	65	57	.11	2400
13	LT4K	10		5.0 7.9	75	50	.15	1800
14	LT4K	12 $\pm 10\%$		5.0 2.5	75	45	.23	1600
15	LT4K	15 $\pm 5\%$		5.0 2.5	75	40	.30	1300
16	LT4K	18		5.0 2.5	75	36	.40	1150
17	LT4K	22		2.5	75	32	.50	1000
18	LT4K	27		2.5	70	30	.60	900
19	LT4K	33		2.5	70	28	.70	850
20	LT4K	39 $\pm 5\%$		2.5	70	26	1.1	720

(B) DENOTES CHANGES

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International  
Interest

TITLE

COILS, RADIO FREQUENCY,  
MOLDED, FIXED, SUBMINIATURE,  
IRON CORE, TYPES LT4K

MILITARY STANDARD

MS 21380(85)

Procurement Specification  
MIL-C-15305

SUPERSEDES:

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ANSC N/A RM  
1 MAY 73

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5950-F 210-Q1

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Review activity: DLA - ES

User activities:

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

FED. SUP CLASS  
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## Electrical Characteristics (initial)

Dash No 1/	Type designation ②	Inductance		Test ③ frequency		Q (Min)	Self resonant frequency 3/ ③	DC resistance (Max)	Rated DC current (Max)
				Q	L 2/				
		$\mu$ H		MHz			MHz	ohms	mA
21	LT4K	47	±5%	2.5		75	25	1.3	620
22	LT4K	56		2.5		80	22	1.8	540
23	LT4K	68		2.5		100	20	2.4	450
24	LT4K	82		2.5		100	18	2.8	425
25	LT4K	100		1.5	2.5	100	17	3.2	400
26	LT4K	120		1.5	.79	100	15	4.8	360
27	LT4K	150		1.0	.79	100	14	6.4	280
28	LT4K	180		1.0	.79	95	12	9.5	240
29	LT4K	220		1.0	.79	95	11	12	200
30	LT4K	270		1.0	.79	70	9	13	195
31	LT4K	330		.79		65	7.5	14	190
32	LT4K	390		.79		65	6.5	15.5	180
33	LT4K	470		.79		60	5.5	17	170
34	LT4K	560		.50	.79	75	4.0	18.5	165
35	LT4K	680		.50	.79	75	3.2	20	155
36	LT4K	820		.50	.79	75	2.8	22	150
37	LT4K	1000		.50	.79	75	2.4	24	145
38	LT4K	1200		.50	.79	75	2.1	27	137
39	LT4K	1500		.40	.79	75	1.9	29	130
40	LT4K	1800		.40	.79	65	1.7	32	125
41	LT4K	2200		.25		65	1.5	35	120
42	LT4K	2700		.25		65	1.3	40	112
43	LT4K	3300		.25		65	1.2	45	105
44	LT4K	3900		.25		65	1.05	49	100
45	LT4K	4700		.25		65	.95	53	95
46	LT4K	5600		.25		65	.85	60	90
47	LT4K	6800		.25		65	.75	67	85
48	LT4K	8200		.25		65	.65	75	82
49	LT4K	10,000	±5%	.15	.25	65	.58	80	80

1/ The dash number added to the MS military standard number constitutes the MS part number, for example, MS21380-01.

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

③ 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			MS21380(85)
Procurement Specification MIL-C-15305	SUPERSEDES:		PAGE 2 OF 3

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## 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	
	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 306.
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

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