



User activities: Army - WC, ME, SL
Navy - AS, MC, SH
Air Force - 19

Reviewer activities: Army - MI, MU, SL
Navy - OS
Air Force - 11, 17, 80
OSA - ES

RATINGS	
Style	LT10
Grade	1
Class	A
Temperature rise	15° C
Ambient temperature	90° C
Operating temperature	- 55° to +105° C
Dielectric withstanding	1000 volts rms for a minimum of 60 sec.
Voltage (sea level)	
Dielectric withstanding	200 volts rms for a minimum of 60 sec.
Voltage (reduced barometric pressure)	
Terminal pull	5 pounds
Altitude	70,000 feet
Weight	4.0 grams max.

Ltr	Dimensions in inches with metric equivalents (mm) in parentheses	
	Minimum	Maximum
A	.365 (9.27)	.385 (9.78)
B	.615 (15.62)	.635 (16.13)
C	1.250 (31.75)	1.625 (41.28)
D	.026 (.66)	.030 (.76)

ELECTRICAL CHARACTERISTICS (INITIAL)

Dash No. 1	Type designation 2/	Former type designation	Superseded MS part no.	Inductance ±10%	Q min	Test freq.	Self-resonant frequency Min	DC resistance Max	Rated DC current
				uh		MHz	MHz	Ohms	Ma
-1	LT10K148	LT4K064	MS75054-1	470	80	.790	3.7	9.0	125
-2	LT10K149	LT4K065	-2	560	80	.790	3.5	10.0	118
-3	LT10K150	LT4K066	-3	680	75	.790	3.2	11.2	112
-4	LT10K151	LT4K067	-4	820	75	.790	3.0	13.0	105
-5	LT10K152	LT4K068	-5	1000	70	.790	2.7	14.5	95

- 1/ The dash number added to the MS military-standard number constitutes the MS part number; for example, MS 14049-1.
- 2/ The decrease in maximum operating temperature from 125° C to 105° C does not downgrade these coils but assures satisfactory operation at 105° C for a minimum of 2000 hours of life rather than a shorter period of operation at 125° C.

This military standard is mandatory for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document.

APPROVED 15 February 1972 REVISED

P.A. NAVY - EC	International interest	TITLE Coils, radio frequency, molded, fixed, subminiature (iron core) types LT10K148 to LT10K152 incl.	MILITARY STANDARD
Other Cust AF-80			MS14049
ARMY - EL			
Procurement Specification MIL-C-15305	SUPERSEDES: MS75054		SHEET 1 OF 2

Electrical Characteristics (Final)

Inspection Group	Allowable variation from initial measurement		Allowable % from specified minimum value in Electrical Characteristics (initial) table	
	Inductance Percent	DC resistance	Self-resonant frequency	Q
Qualification Inspection				
Group II	± 2	--	--	- 10
Group III	± 5	± (3%+.001ohm)	- 8	- 10
Group IV	± 5	± (2%+.001ohm)	- 10	- 15
Quality Conformance Inspection				
Group C				
Subgroup I	± 2	--	--	- 10
Subgroup II	± 5	± (2%+.001ohm)	- 10	- 15
Subgroup III	± 5	± (3%+.001ohm)	- 8	- 10

NOTES:

1. Dimensions are in inches.
2. Metric equivalents (to the nearest .01 mm) are given for general information only and are based upon 1 inch = 25.4 mm.
3. These coils are intended to be mounted by the body.
4. The polarizing voltage during the moisture-resistance tests is applied with the positive lead connected to the coil terminals tied together, and the negative lead connected to the metal strap.
5. Terminal strength (Pull) test, is not applicable in "Group B" inspection Table VI.
6. Solderable/weldable lead wire, AWG #21.
7. Barometric pressure test (test condition C) is applicable.
8. Shock, specified pulse, method 213, test condition I, is applicable.
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.

REVISED

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