



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

Reviewer activities: Army - MI, MU, SL
Navy - OS
Air Force - II, I7, 80
DSA - ES

RATINGS	
Style	LT10
Grade	1
Class	A
Temperature rise	15° C
Ambient temperature	90° C
Operating temperature	-55° to +105° C
Dielectric withstanding Voltage (sea level)	1000 volts rms for a minimum of 60 sec.
Dielectric withstanding Voltage (reduced barometric pressure)	200 volts rms for a minimum of 60 sec.
Terminal pull	5 pounds
Altitude	70,000 feet
Weight	1.5 grams max.

Ltr	Dimensions in inches with metric equivalents (mm) in parentheses	
	Minimum	Maximum
A	.210 (5.33)	.230 (5.84)
B	.550 (13.97)	.570 (14.48)
C	1.250 (31.75)	1.625 (41.28)
D	.023 (.58)	.027 (.69)

ELECTRICAL CHARACTERISTICS (INITIAL)

Dash No.	Type designation	Former type designation	Superseded MS part no.	Inductance · 10 ⁷	Q min	Test freq.	Self-resonant frequency Min	DC resistance Max	Rated DC current
				uh		MHz	MHz	Ohms	Ma
-1	LT10K158	LT4K328	MS90542-14	5.60	35	7.9	55	.13	885
-2	LT10K159	LT4K329	-15	6.80	35	7.9	50	.20	710
-3	LT10K160	LT4K330	-16	8.20	35	7.9	44	.22	680
-4	LT10K161	LT4K331	-17	10.00	35	7.9	42	.26	625
-5	LT10K162	LT4K332	-18	12.00	45	2.5	34	.45	465
-6	LT10K163	LT4K333	-19	15.00	45	2.5	32	.52	442
-7	LT10K164	LT4K334	-20	18.00	50	2.5	28	.70	380
-8	LT10K165	LT4K335	-21	22.00	60	2.5	24	1.00	326
-9	LT10K166	LT4K336	-22	27.00	60	2.5	22	1.30	275
-10	LT10K167	LT4K337	-23	33.00	60	2.5	20	1.50	258
-11	LT10K168	LT4K338	-24	39.00	70	2.5	18	2.00	224

- 1/ The dash number added to the MS military-standard number constitutes the MS part number; for example, MS 14052-1.
- 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 Other Cust AF-80 ARMY-EL	International interest	TITLE Coils, radio frequency, molded, fixed, subminiature (iron core) types LT10K158 to LT10K168 incl.	MILITARY STANDARD
Procurement Specification MIL-C-15305		SUPERSEDES: MS90542 in part Part Nos. 90542-14 thru 90542-24	MS14052
			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 #22.
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.

APPROVED
REVISED

P.A. NAVY-EC Other Cust AF-80 ARMY-EL	International interest	TITLE Coils, radio frequency, molded, fixed, subminiature (iron core) types LT10K158 to LT10K168 incl.	MILITARY STANDARD MS 14052
Procurement Specification MIL-C-15305		SUPERSEDES: MS90542 in part Part Nos. 90542-14 thru 90542-24	SHEET 2

DD FORM 672 (Coordinated) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE
10 APR 64

User activities: Army
Navy
Air Force

Reviewer activities: Army
Navy
Air Force

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.