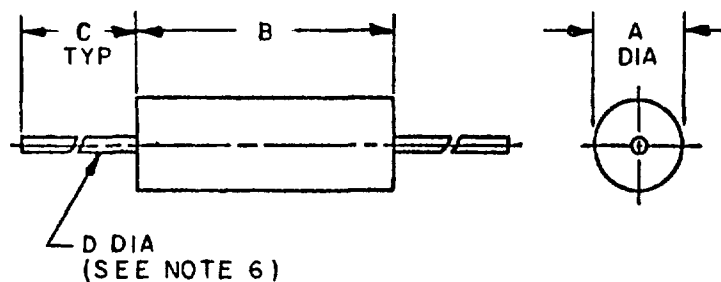


User activities: Army WC,SL,MU  
Navy AS,SH,MC,OS  
Air Force 19

Reviewer activities: Army MI,SL  
Navy  
Air Force 11,17,80  
DSA-ES

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.



FED SUP CLASS  
5950

### 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	3.9 grams max.

Ltr	Dimensions in inches with metric equivalents (mm) in parentheses	
	Minimum	Maximum
A	.250 (6.35)	.313 (7.95)
B	.875 (22.23)	1.000 (25.40)
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	Super-seeded MS part no.	Inductance ±10%	Q min	Test freq.	Self-resonant frequency Min	DC resistance Max	Rated DC current
				μH		MHz	MHz	Ohms	Ma
-1	LT10K181	LT4K017	91189-29	22.0	50	2.5	24	0.295	725
-2	LT10K182	LT4K018	91189-30	27.0	45	2.5	22	0.350	660
-3	LT10K183	LT4K019	91189-31	33.0	60	2.5	19	0.550	525
-4	LT10K184	LT4K020	91189-32	39.0	55	2.5	18	0.650	485
-5	LT10K185	LT4K021	91189-33	47.0	65	2.5	16	1.00	390
-6	LT10K186	LT4K022	91189-34	56.0	65	2.5	14	1.15	360
-7	LT10K187	LT4K023	91189-35	68.0	75	2.5	13	1.85	285
-8	LT10K188	LT4K024	91189-36	82.0	75	2.5	12	2.10	265
-9	LT10K189	LT4K025	91189-37	100.0	75	2.5	12	2.50	245
-10	LT10K190	LT4K026	91189-38	120.0	95	0.790	10	4.10	195

1/ The dash number added to the MS military-standard number constitutes the MS part number; for example, MS 75103-1

2/ These coils are directly interchangeable with former part numbers (MS91189-29 thru -38). The decrease in maximum operating temperature 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 life at 125°C.

APPROVED 14 Mar 1972 REVISED

P A ARMY-EL Other Cust AF-80 NAVY-EC	International interest	TITLE Coils, Radiofrequency, Molded, Fixed, Subminiature (Iron core) Types LT10K181 to LT10K190 incl.	MILITARY STANDARD MS 75103
Procurement Specification MIL-C-15305		SUPERSEDES: MS 91189 IN PART PART NUMBER 91189-29 THRU 91189-38	SHEET 1 OF 2

DD FORM 1 SEP 63 672 (Coordinated) PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

5950-0403-2

FED SUP CLASS  
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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	Q
	Percent			
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, #21 AWG.
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 14 Mar 1972 REVISED

P A ARMY-EL	International Interest	TITLE Coils, Radiofrequency, Molded, Fixed, Subminiature (Iron core) Types LT10K181 to LT10K190 incl.	MILITARY STANDARD
Other Cust AF-80			MS 75103
NAVY-EC			
Procurement Specification MIL-C-15305		SUPERSEDES: MS 91189 IN PART PART NUMBER 91189-29 THRU 91189-38	SHEET 2 OF 2