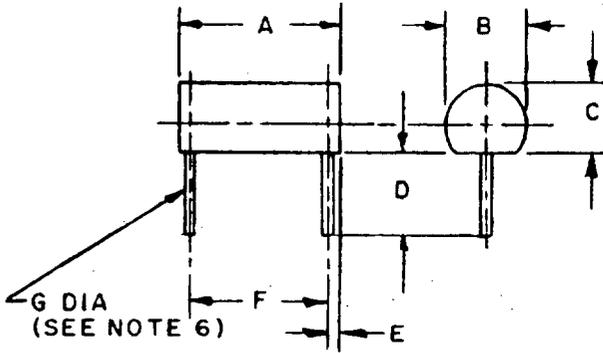


(A)

THIS MILITARY STANDARD INACTIVE FOR NEW DESIGN AFTER 25 July 1983  
NO SUPERSEDING STANDARD

User activities: Army ME  
 Navy AS, MC, SH  
 Air Force 19  
 Reviewer activities: Army MI, AR  
 Navy OS  
 Air Force 11, 17, 80  
 DLA - ES



Ltr	Dimensions in inches with metric equivalents (mm) in parentheses	
	Minimum	Maximum
A	.594 (15.09)	.656 (16.99)
B	.251 (6.38)	.313 (7.95)
C	.234 (5.94)	.296 (7.52)
D	.250 (6.35)	.374 (9.50)
E	.051 (1.30)	.071 (1.80)
F	.490 (12.50)	.510 (12.95)
G	.023 (.58)	.027 (.69)

RATINGS	
Style	LT 10
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	1.8 grams max.

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Dash No. 1/	Type designation 2/	Former type designation	Superseded MS part no.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	LT10K108	LT4K222	MS18100-23	68	45	2.5	6.8	3.3	165
-2	LT10K109	LT4K223	-24	82	40	2.5	6.3	3.5	157
-3	LT10K110	LT4K224	-25	100	35	2.5	5.8	3.8	152
-4	LT10K111	LT4K225	-26	120	60	.79	5.0	4.7	138
-5	LT10K112	LT4K226	-27	150	60	.79	4.4	5.3	132

- 1/ The dash number added to the MS military-standard number constitutes the MS part number; for example MS 14041-1.
  - 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.
- (A) DENOTES CHANGE

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.

P.A. NAVY-EC Other Cust AF-85 ARMY-ER	International interest	TITLE Coils, radio frequency, molded, fixed, subminiature (iron core) types LT10K108 to LT10K112 incl.	MILITARY STANDARD <b>MS 14041</b>
Procurement Specification <b>MIL-C-15305</b>		SUPERSEDES: MS18100 in part Part Nos. MS18100-23 thru MS18100-27	PAGE 1 OF 2

APPROVED 15 February 1972 REVISED (A) 25 July 1983

FED. SUP CLASS  
5950

## 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:

- Dimensions are in inches.
- Metric equivalents are given for general information only and are based upon 1 inch = 25.4 mm.
- These coils are intended to be mounted by the body.
- 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.
- Terminal strength (Pull) test, is not applicable in "Group B" inspection Table VI.
- Solderable/weldable lead wire, AWG # 22.
- Barometric pressure test (test condition C) is applicable.
- Shock, specified pulse, method 213, test condition I, is applicable.
- Referenced document shall be the issue in effect on date of invitation for bid.
- This standard takes precedence over the procurement specification referenced herein.

- (A) 11. Quality Assurance Provisions:  
 Qualification Inspection: Not applicable for this standard.  
 Quality Conformance Inspection: Group A and B tests of MIL-C-15305 shall be applicable.

P.A. NAVY - EC Other Cust AF-85 ARMY-ER	International interest	TITLE Coils, radio frequency, molded, fixed, subminiature (iron core) types LT10K108 to LT10K112 incl.	MILITARY STANDARD <b>MS14041</b>
Procurement Specification <b>MIL-C-15305</b>	SUPERSEDES: MS18100 in part Part Nos. MS18100-23 thru MS18100-27.		PAGE 2

REVISED (A) For chgs see Pgs 1 and 2

APPROVED

User activities: Army ME  
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