

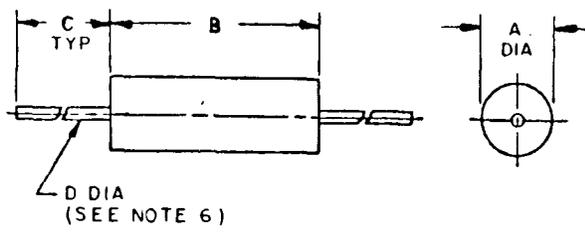
(E) INACTIVE FOR NEW DESIGN AFTER  
4 September 1985 USE MIL-C-39010/4

FED. SUP CLASS  
5950

User activities:  
Army - AR, ME  
Navy - AS, SH, MC, OS  
Air Force - 19

Review activities:  
Army - MI, ME  
Navy -  
Air Force - 11, 17  
DLA - ES

This military standard is approved 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 when applicable.



RATINGS	
Style	LT4
Grade	1
Class	B
Temperature rise	35°C
Ambient temperature	90°C
Operating temperature	-55° to +125°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	.95 gram max.

Ltr	Dimensions in inches with metric equivalents (mm) in parentheses	
	Minimum	Maximum
A	.156 (3.96)	.219 (5.56)
B	.406 (10.31)	.469 (11.91)
C	1.250 (31.75)	1.625 (41.28)
D	.023 (.58)	.027 (.69)

ELECTRICAL CHARACTERISTICS (INITIAL)

Dash No. 1/ 2/	Type designation	Former type designation	Former MS part No.	L, $\mu$ H	Q, %	Test frequency, MHz	Self-resonant frequency, MHz	DC resistance, $\Omega$ max	Rated DC current, mA
-21	LT4K027	LT7K125	MS16224-1 and MS75008-1	0.15 $\pm$ 20%	55	25.0	510	0.030	3,000
-22	LT4K028	LT7K126	MS16224-2 and MS75008-2	0.22 $\pm$ 20%	50	25.0	415	0.035	2,800
-23	LT4K029	LT7K127	MS16224-3 and MS75008-3	0.33 $\pm$ 20%	50	25.0	350	0.065	2,000
-24	LT4K030	LT7K128	MS16224-4 and MS75008-4	0.47 $\pm$ 20%	50	25.0	300	0.085	1,700
-25	LT4K031			0.56 $\pm$ 10%	50	25.0	270	0.125	1,450
-26	LT4K032	LT7K129	MS16224-5 and MS75008-5	0.68 $\pm$ 10%	45	25.0	250	0.150	1,300
-27	LT4K033			0.82 $\pm$ 10%	40	25.0	210	0.205	1,100
-28	LT4K034	LT7K130	MS16224-6 and MS75008-6	1.00 $\pm$ 10%	40	25.0	200	0.290	930
-29	LT4K035			1.20 $\pm$ 10%	30	7.9	180	0.400	785
-30	LT4K036	LT7K131	MS16224-7 and MS75008-7	1.50 $\pm$ 10%	30	7.9	170	0.485	700
-31	LT4K037			1.80 $\pm$ 10%	30	7.9	150	0.740	580
-32	LT4K038	LT7K132	MS16224-8 and MS75008-8	2.20 $\pm$ 10%	30	7.9	140	0.970	505
-33	LT4K039	LT7K133	MS16224-9 and MS75008-9	2.70 $\pm$ 10%	30	7.9	120	1.20	460

1/ The dash number added to the MS military-standard number constitutes the MS part number: for example, MS75008-21.  
2/ See note 11.

(E) Denotes changes

P.A. ARMY - ER	International interest	TITLE	MILITARY STANDARD
Other Cust AF-85 NAVY - EC		COILS, RADIOFREQUENCY, MOLDED, FIXED, SUBMINIATURE (PHENOLIC CORE) TYPES LT4K027 TO LT4K039 INCL	MS 75008
Procurement Specification MIL-C-15305		SUPERSEDES:	PAGE 1 OF 2

APPROVED 24 Mar 59 REVISED (A) 18 Oct 62 (B) 25 Mar 63 (C) 14 Mar 72 (D) 31 Oct 72 (E) 4 September 1985

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
Qualification Inspection	Percent			
Group II	± 2	--	--	-10
Group III	± 5	+(3%+.001 ohm)	- 8	-10
Group IV	± 5	±(2%+.001 ohm)	-10	-15
Quality Conformance Inspection				
Group C				
Subgroup I	± 2	--	--	-10
Subgroup II	± 5	±(2%+.001 ohm)	-10	-15
Subgroup III	± 5	±(3%+.001 ohm)	- 8	-10

NOTES:

- Dimensions are in inches.
- Metric equivalents are given for general information only.
- These coils are intended to be mounted by their leads.
- 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, number 22 AWG.
- Barometric pressure test (test condition C) is applicable.
- Shock, specified pulse, method 213, test condition I, is applicable.
- Former MS part numbers MS75008-34 thru MS75008-45 have been superseded by MS75101-1 thru MS75101-12, respectively.
- Metric equivalents are in parentheses.
- 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.
- 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.

APPROVED 24 Mar 59 REVISED (E) FOR CHANGES SEE PAGES 1 AND 2

P.A ARMY - ER	International interest	TITLE COILS, RADIOFREQUENCY, MOLDED, FIXED, SUBMINIATURE (PHENOLIC CORE) TYPES LT4K027 TO LT4K039 INCL	MILITARY STANDARD
Other Cust AF-85 NAVY - EC			MS 75008
Procurement Specification MIL-C-15305	SUPERSEDES:		PAGE 2 OF 2

Department of Defense. SECTION 10: ALL NEW SUBSTITUTIONS AND REVISIONS TO THIS STANDARD MUST BE MADE FROM THIS DOCUMENT WHEN APPLICABLE.

Air Force - 11, 17  
DLA-ES