INCH-POUND

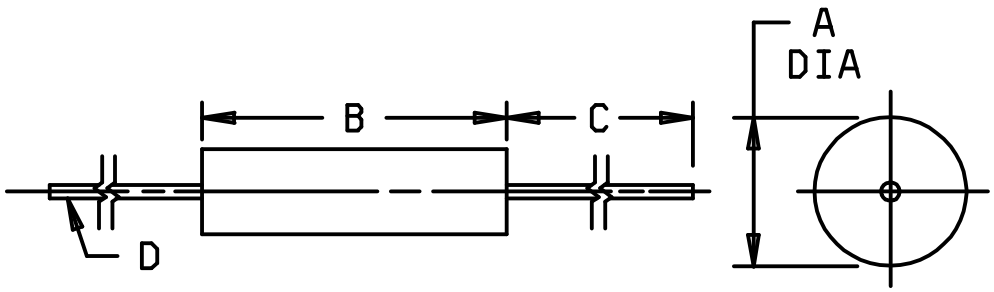
MIL-PRF-39010/8C
27 August 1997
SUPERSEDING
MIL-C-39010/8B
4 January 1994

PERFORMANCE SPECIFICATION SHEET

COILS, FIXED, RADIO FREQUENCY, MOLDED, MICROMINIATURE (PHENOLIC CORE), ESTABLISHED RELIABILITY AND NONESTABLISHED RELIABILITY

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-PRF-39010.



Letter	Dimensions are in inches with metric equivalents (mm) in parentheses	
	Minimum	Maximum
A	.085 (2.16)	.105 (2.67)
B	.240 (6.10)	.260 (6.60)
C	1.250 (31.75)	1.626 (41.30)
D	.0185 (0.470)	.0215 (0.546)

NOTES:
1. Dimensions are in inches.
2. Metric equivalents are given for information only.

FIGURE 1. Dimensions and configuration

REQUIREMENTS:

Interface and physical dimensions: See figure 1.

Material: Phenolic core.

Weight: 0.01 ounce maximum.

Operating temperature range: -55°C to +125°C.

Dielectric withstanding voltage: Method 301 of MIL-STD-202; test voltage of 1,000 V rms.

Barometric pressure: Method 105 of MIL-STD-202, test condition C, 70,000 feet with a test voltage of 300 V rms.

Electrical characteristics: See table I and table II.

Inductance: See table I.

Inductance tolerance: See table I.

Q values: See table I.

Self-resonant frequency: See table I.

DC resistance: See table I.

Temperature rise: 35°C.

Terminal pull: 5 pounds.

Part or Identifying Number (PIN): M39010/08 (dash number from table I).

Supersession data: This specification supersedes MS75083 dated 4 September 1985.

TABLE I. Electrical characteristics (initial) and dash numbers

Dash number 1/	Inductance µH	Inductance tolerance ± percent	Q minimum	Test frequency (MHz)	Self-resonant frequency minimum (MHz)	DC resistance (25°C) maximum (ohms)	Rated dc current (mA) 2/
BR10**	.10	5, 10	40	25.0	680	.08	1,350
BR11**	.11	5	40	25.0	640	.09	1,270
BR12**	.12	5, 10	40	25.0	640	.09	1,270
BR13**	.13	5	38	25.0	600	.10	1,200
BR15**	.15	5, 10	38	25.0	600	.10	1,200
BR16**	.16	5	35	25.0	550	.12	1,105
BR18**	.18	5, 10	35	25.0	550	.12	1,105
BR20**	.20	5	33	25.0	510	.14	1,025
BR22**	.22	5, 10	33	25.0	510	.14	1,025
BR24**	.24	5	33	25.0	430	.16	960
BR27**	.27	5, 10	33	25.0	430	.16	960
BR30**	.30	5	30	25.0	410	.22	815
BR33**	.33	5, 10	30	25.0	410	.22	815
BR36**	.36	5	30	25.0	365	.30	700
BR39**	.39	5, 10	30	25.0	365	.30	700
BR43**	.43	5	30	25.0	330	.35	650
BR47**	.47	5, 10	30	25.0	330	.35	650
BR51**	.51	5	30	25.0	300	.50	545
BR56**	.56	5, 10	30	25.0	300	.50	545
BR62**	.62	5	28	25.0	275	.60	495
BR68**	.68	5, 10	28	25.0	275	.60	495
BR75**	.75	5	28	25.0	250	.85	415
BR82**	.82	5, 10	28	25.0	250	.85	415
BR91**	.91	5	25	25.0	230	1.00	385
B1R0**	1.00	5, 10	25	25.0	230	1.00	385

1/ The complete dash number will include two additional letters (indicated by **). The first additional letter will indicate the inductance tolerance and the second additional letter will indicate the product level (e.g., C, M, P, R, S) and will be added to the end of the dash number.

2/ The rated dc current is based on 90°C ambient temperature with a 35°C rise.

TABLE II. Electrical characteristics (final) 1/

Inspection group	Allowable variation from initial measurement		Allowable percent from specified minimum value in electrical characteristics (initial) table	
	Inductance (percent)	DC resistance	Self-resonant frequency	Q
Qualification inspection				
Group II	±2			-10
Group IV	±5	±(3% +.001 ohm)	2/	-10
Group V	±5	±(2% +.001 ohm)	2/	-15
Quality conformance inspection Group B				
Subgroup 1	±5	±(2% +.001 ohm)	2/	-15
Subgroup 3	±2			-10
Subgroup 4	±5	±(3% +.001 ohm)	2/	-10

1/ Test fixture allowance of +.01µH shall be added to all change in inductance limits±(_ percent +.01 µH).
2/ The self-resonant frequency shall be not less than the value specified in table I.

Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

Custodians:
Army - CR
Navy - EC
Air Force - 85

Review activities:
Army - AR, CR4, MI
Navy - AS, CG, MC, OS, SH
Air Force - 17, 19, 99
DLA - CC

Preparing activity:
Army - CR

Agent:
DLA - CC

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