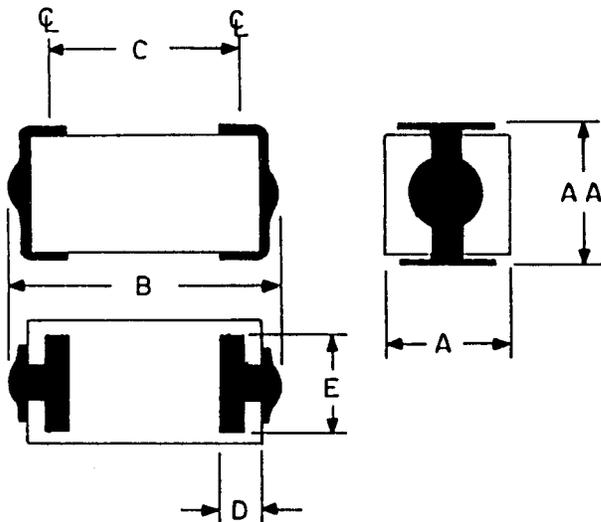


PERFORMANCE SPECIFICATION SHEET

COILS, RADIO FREQUENCY, CHIP, FIXED, MAGNETICALLY SHIELDED,
 (FERRITE CORE- FERRITE SLEEVE)

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

The requirements for acquiring the products described herein shall consist of this specification and MIL-PRF-83446.



Letter	Dimensions	
	Minimum	Maximum
A	.105 (2.67)	.125 (3.18)
AA	.125 (3.18)	.145 (3.68)
B	.300 (7.62)	.320 (8.13)
C	.230 (5.84)	.260 (6.60)
D	.020 (0.51)	.040 (1.02)
E	.075 (1.91)	.095 (2.41)

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Metric equivalents are in parentheses.
4. Dimensions AA and B are measured over the terminals.

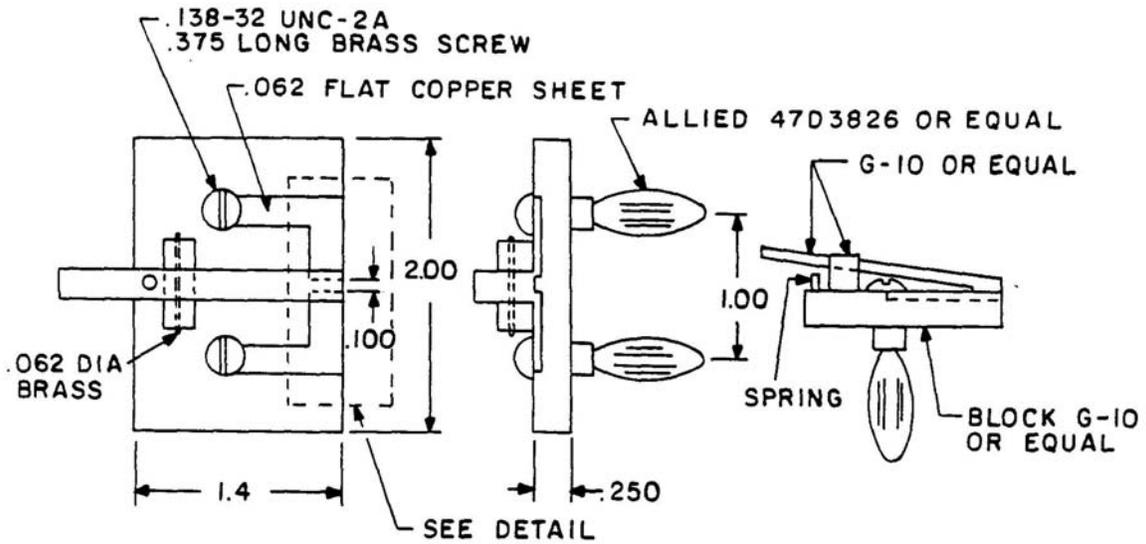
FIGURE 1. Dimensions and configuration.

TABLE I. Electrical characteristics (initial) and dash numbers.

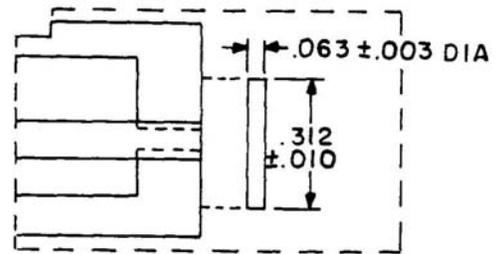
Dash number	Inductance ±10% (μH)	Q (min)	Test Frequency (L and Q) (MHz)	Self resonant frequency (min) MHz	DC resistance (max) ohms	Current rating (max) mA	Incremental Current D.C. (mA)
-01	120	31	.79	13	5.80	88	27
-02	150	33	.79	12	7.90	75	24
-03	180	33	.79	11	9.40	69	22
-04	220	35	.79	10	11.0	64	20
-05	270	35	.79	9	12.0	61	18
-06	330	35	.79	8	16.0	53	16
-07	390	35	.79	7.8	21.0	46	14
-08	470	35	.79	7.5	24.0	43	13
-09	560	35	.79	7	28.0	40	12

TABLE II. Electrical characteristics (final).

Inspection group	Allowable variation from initial measurements			
	Inductance (Percent)	DC resistance	Self-resonant frequency (Percent)	Q (Percent)
Qualification inspection				
Group II	±10	±(3% +.001 ohm)	-15	-20
Group IV	±5	±(3% +.001 ohm)	-15	-20
Group V	±10	---	---	-20
Conformance inspection group C				
Subgroup II	±10	±(3% +.001 ohm)	-15	-20
Subgroup IV	±10	±(3% +.001 ohm)	-15	-20



Inches	mm
.003	0.08
.010	0.25
.062	1.57
.063	1.60
.100	2.54
.138	3.51
.250	6.35
.312	7.92
.375	9.52
1.000	25.40
1.400	35.56
2.000	50.80

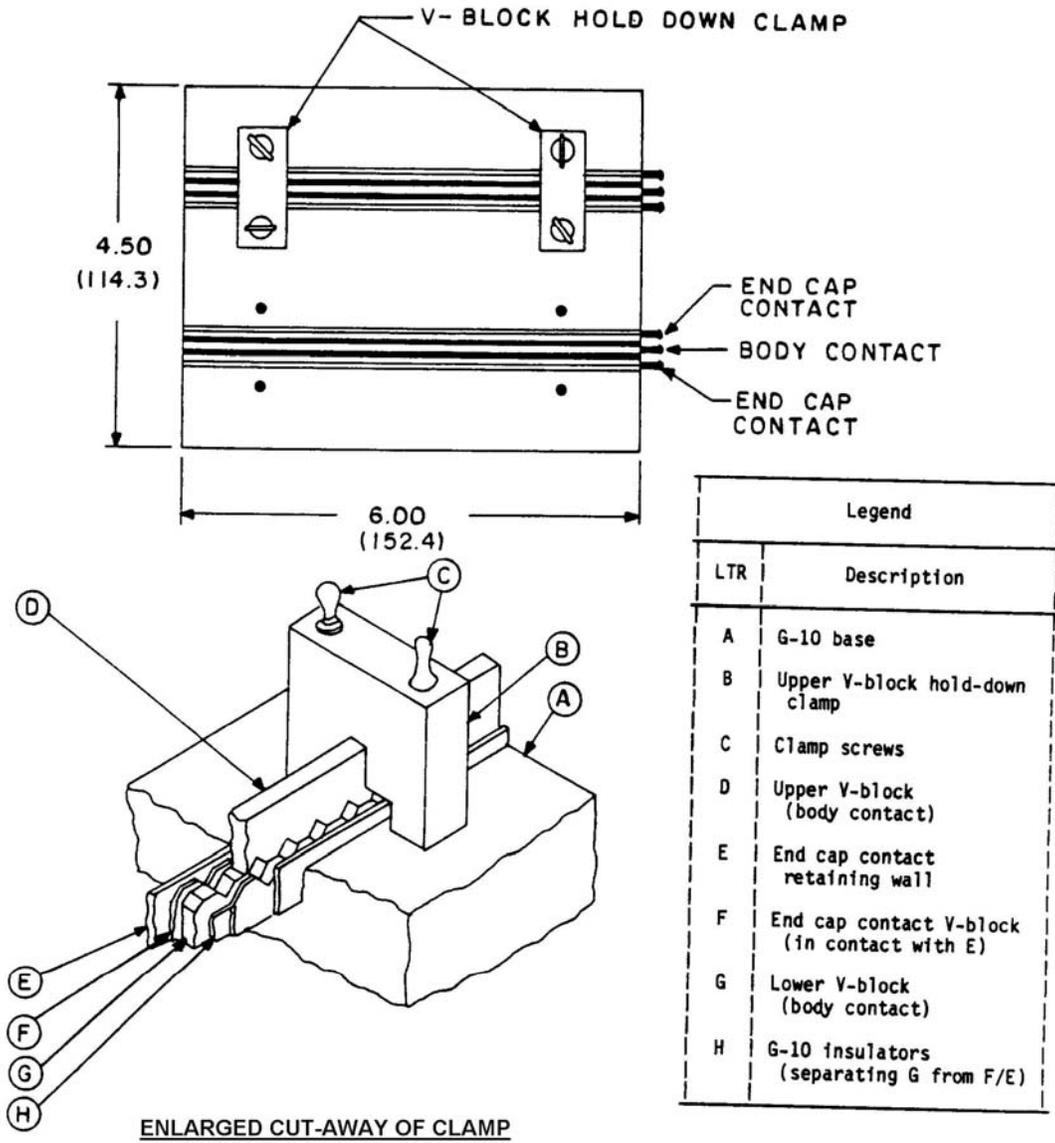


SHORTING BAR LOCATION DETAIL

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information.
3. Shorting bar material is brass.
4. The total fixture and residual inductance is approximately .049 μ H (for reference only).

FIGURE 2. General test fixture. (TF-397).



NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Metric equivalents are in parentheses.

FIGURE 3. Test fixture for insulation resistance, dielectric withstanding voltage and barometric pressure.

REQUIREMENTS:

Dimensions and configuration: See figure 1.

Bond strength: Force 2 pounds.

Weight: 0.30 gram, maximum.

Operating temperature range: -55°C to +105°C.

Temperature rise (at 90°C): +15°C.

Maximum operating temperature: +105°C.

Altitude: 70,000 feet.

Dielectric withstanding voltage: Method 301 of MIL-STD-202, test voltage 200 volts rms.

Barometric pressure: Method 105, test condition C, MIL-STD-202, (70,000 feet), test voltage 80 volts rms.

Electrical characteristics (initial): See table I.

Percent coupling: 3 percent maximum.

Electrical characteristics (final): See table II.

Test fixture: Tests shall be performed using test fixtures shown on figures 2 and 3, or equivalent.

Part Identifying Number (PIN): The part number shall be in the following form.

M83446/27-

04

E

|
Sequentially assigned dash
Numbers (see table I and II)

|
Termination finish
(see MIL-PRF-83446)

Changes from previous issue. The margins of this specification are marked with vertical lines to indicate where changes from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous issue.

Referenced documents.

MIL-PRF-83446
MIL-STD-202

Custodians:
Army – CR
Navy - EC
Air Force – 11
DLA - CC

Preparing activity:
DLA – CC

(Project 5950-2006-030)

Review activities:
Army – MI
Navy – AS, OS
Air Force - 19

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <http://assist.daps.dla.mil>.