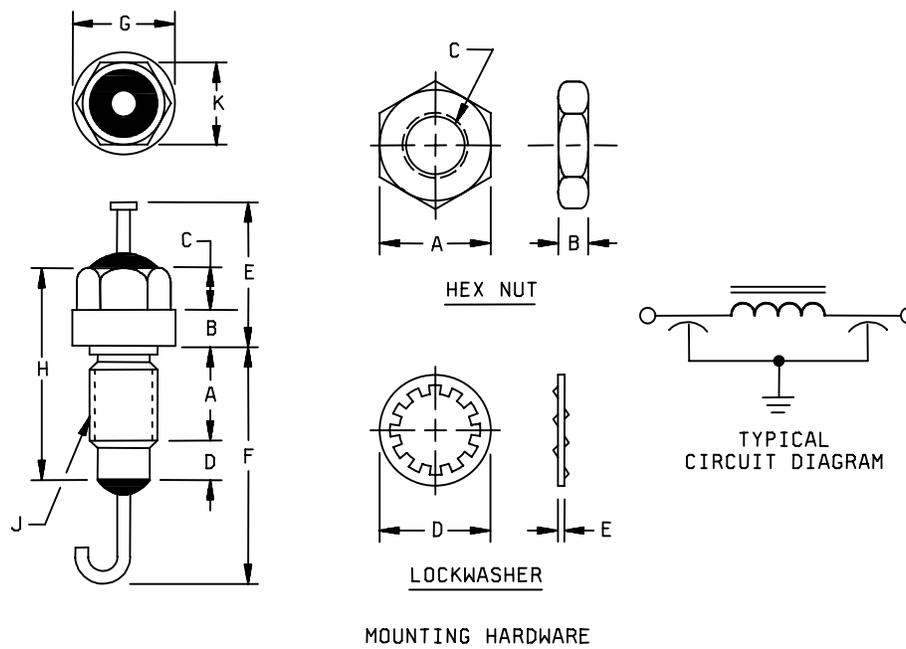


PERFORMANCE SPECIFICATION SHEET

FILTERS, RADIO FREQUENCY INTERFERENCE
 SUPPRESSION, STYLE FL41

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

The complete requirements for acquiring the filters described herein shall consist of this specification sheet and the latest issue of MIL-PRF-15733.



NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Circuit diagram for information only.
4. Recommended mounting torque: 6-8 inches-pounds.
5. Case is ground terminal.
6. Mounting hardware (lockwasher and hex nut) shall be supplied with filter.
7. Turret head is optional.

FIGURE 1. Case dimensions and circuit configurations.

TABLE I. Filter dimensions.

Dash number	A	B		C		D		E		F		G		H	J	K
	Ref	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Ref	Thread	$\pm .015$ (0.38)
0001	.250 (6.35)	.110 (2.79)	.140 (3.58)	.141 (3.58)	.171 (4.34)	.141 (3.58)	.171 (4.34)	.406 (10.31)	.468 (11.89)	.656 (16.66)	.718 (18.24)	.235 (5.97)	.265 (6.73)	.687 (17.45)	12-32 UNEF-2A	.187 (4.75)

TABLE II. Hardware dimensions.

Dash number	Hex Nut					Lockwasher			
	A		B		C	D		E	
	Min	Max	Min	Max	Thread	Min	Max	Min	Max
0001	.235 (5.97)	.265 (6.73)	.070 (1.78)	.080 (2.03)	12-32 UNF-2B	.370 (9.40)	.380 (9.65)	.013 (0.33)	.023 (0.58)

FIGURE 1. Case dimensions and circuit configurations - Continued.

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REQUIREMENTS:

Configuration and dimensions: See figure 1 and tables I and II.

Case: Metal.

Case and hardware finish: In accordance with MIL-PRF-15733. Pure tin finish is prohibited.

Terminals: Solderable.

Rated voltage: 300 V dc over the operating temperature range.

Rated current: 10 amperes, dc.

Insertion loss: In accordance with MIL-PRF-15733 and table III.

Capacitance to ground: In accordance with MIL-PRF-15733. Measured capacitance shall be at least 4,000 pF.

Temperature rise: +25°C maximum.

Dielectric withstanding voltage: In accordance with MIL-PRF-15733. The following exception shall apply:

The test voltage shall be 900 V dc applied for 1.5 seconds.

Barometric pressure (reduced): In accordance with MIL-PRF-15733 and Method 105, MIL-STD-202; test condition D.

Insulation resistance: In accordance with MIL-PRF-15733. The insulation resistance measured at +25°C between both terminals connected together and the case shall be at least 10,000 megohms.

Voltage drop: Not applicable.

Overload: In accordance with MIL-PRF-15733. The following exception shall apply:

Insulation resistance only shall be measured and shall meet initial requirements.

Terminal strength: In accordance with MIL-PRF-15733 and Method 211, MIL-STD-202; test condition A.

Applied force: 5 pounds.

Salt atmosphere (corrosion): In accordance with MIL-PRF-15733 and Method 101, MIL-STD-202; test condition B.

Thermal shock and immersion: Not applicable.

Shock (specified pulse): In accordance with MIL-PRF-15733 and Method 213, MIL-STD-202; test condition I.

Vibration, high frequency: In accordance with MIL-PRF-15733 and Method 204, MIL-STD-202; test condition D.

Moisture resistance: Not applicable.

Life: In accordance with MIL-PRF-15733 and Method 108, MIL-STD-202; test condition D. The following exceptions shall apply:

Test voltage: 600 V dc.

Following the test, insulation resistance shall be 10,000 megohms.

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TABLE III. Insertion loss versus frequency.

Dash number	Minimum no-load insertion loss (dB) in accordance with MIL-STD-220, at +25°C.				
	50 MHz	100 MHz	200 MHz	500 MHz	1-10 GHz
0001	50	65	70	70	70

Part or Identifying Number (PIN): M15733/46-0001

Marking: Filters shall be marked, as a minimum, with an abbreviated PIN as shown on figure 2. Full marking, in accordance with MIL-PRF-15733, shall be marked on the unit package.



FIGURE 2. Example of marking for the abbreviated PIN on the hex flats - expanded view.

Application note: These nonhermetically sealed filters may be susceptible to moisture intrusion when subjected to repeated thermal cycling. If these items are to be utilized in applications enduring harsh environments, the user should consider placing them within hermetic enclosures.

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

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

Preparing activity:
 DLA - CC
 (Project 5915-0422)

Review activities:
 Navy - AS, MC, OS
 Air Force - 19, 99