

INCH-POUND

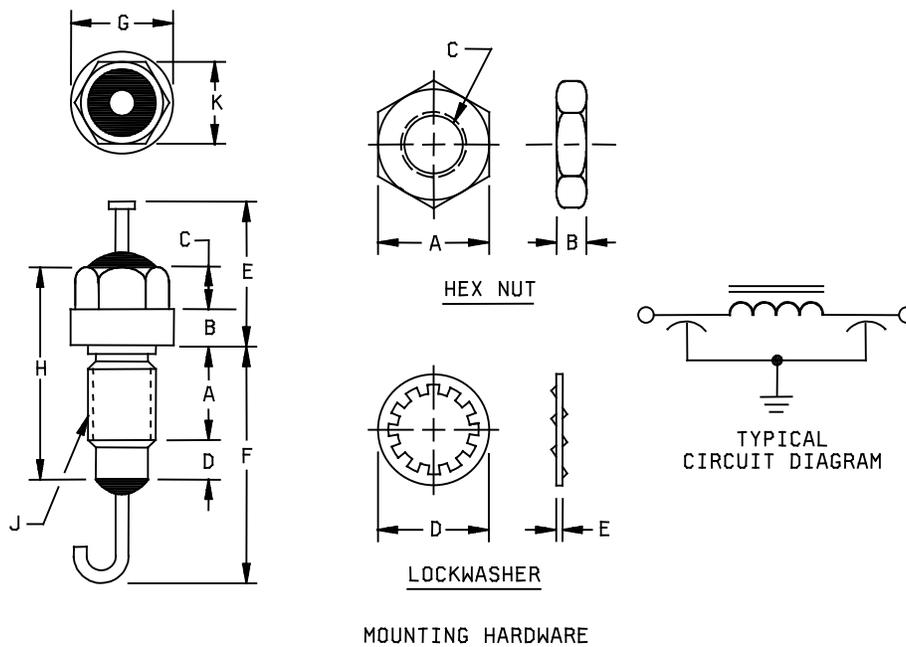
MIL-PRF-15733/46D
3 March 2015
SUPERSEDING
MIL-PRF-15733/46C
W/AMENDMENT 1
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PERFORMANCE SPECIFICATION SHEET

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 requirements for acquiring the filters described herein
shall consist of this specification sheet and [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.

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.

Referenced documents. In addition to [MIL-PRF-15733](#), this document also references the following:

[MIL-STD-202](#)
[MIL-STD-220](#)

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

Custodians:
 Navy – EC
 Air Force – 85
 DLA – CC

Preparing activity:
 DLA - CC
 (Project 5915-2015-012)

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

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 <https://assist.dla.mil/>.