

INCH-POUND

MIL-PRF-15733/56D
28 May 2003
SUPERSEDING
MIL-PRF-15733/56C(USAF)
31 August 1992

PERFORMANCE SPECIFICATION SHEET

FILTERS, RADIO FREQUENCY INTERFERENCE SUPPRESSION,
HERMETICALLY SEALED, STYLE FL61

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.

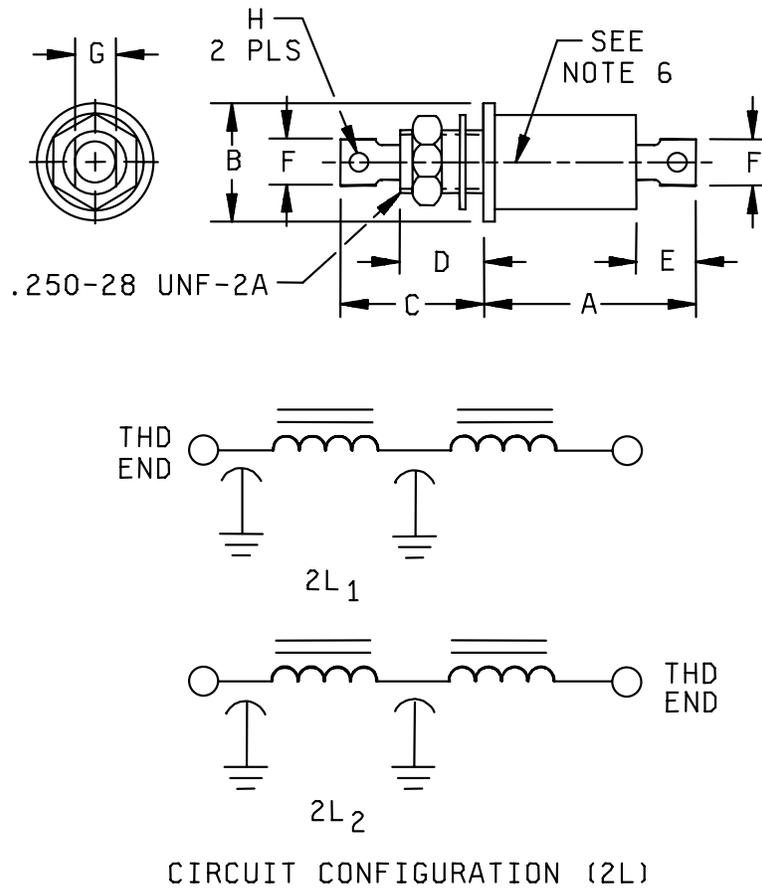


FIGURE 1. Case and circuit configuration.

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Dimensions

Dash number	A	B	C	D		E	F		G		H
	Max	Max	Max	Min	Max	Max	Min	Max	Min	Max	Slot or hole ±.010
0001	1.050 (26.67)	.410 (10.41)	.352 (8.94)	.177 (4.50)	.197 (5.00)	.190 (4.83)	.085 (2.16)	.120 (3.05)	.196 (4.98)	.206 (5.23)	.050 x .070 or .050 dia
0002	1.050 (26.67)	.410 (10.41)	.352 (8.94)	.177 (4.50)	.197 (5.00)	.190 (4.83)	.085 (2.16)	.120 (3.05)	.196 (4.98)	.206 (5.23)	.050 x .070 or .050 dia
0003	1.09 (27.7)	.416 (10.57)	.352 (8.94)	.180 (4.57)	.200 (5.08)	.190 (4.83)	.085 (2.16) REF	.120 (3.05)	.196 (4.98)	.206 (5.23)	.050 x .070 or .050 dia

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Circuit diagram is for information only.
4. All filters shall be supplied with mounting hardware.
5. Use of style FL61 with or without shoulder is optional.
6. Terminal identification (nonsymmetrical filters): The case shall be marked at the threaded end of the filter, with the symbol "C" or "L" as follows:

<u>Circuit</u>	<u>Symbol</u>
2L ₁	C
2L ₂	L

FIGURE 1. Case and circuit configuration. (continued)

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REQUIREMENTS:

Dimensions and configuration: See figure 1.

Case: Metal.

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

Weight: 8.5 grams, maximum (0001 and 0002).
9 grams, maximum (0003).

Terminals: Solderable.

Seal: Glass to metal.

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

Rated voltage: 50 V dc.

Rated current: See table I.

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

Seal: In accordance with MIL-PRF-15733.

Temperature rise: In accordance with MIL-PRF-15733; 25°C, maximum.

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

Test temperature: 25°C.

Test voltage: 100 V dc applied between each terminal and ground, for a period of 1 to 5 seconds.

Insulation resistance: In accordance with MIL-PRF-15733. The following details shall apply:

Test temperature: 25°C.

Insulation resistance: Shall be not less than 1,000 megohms.

Voltage drop: In accordance with MIL-PRF-15733 and table I.

TABLE I. Electrical characteristics.

Dash number	Circuit configuration	DC resistance (ohms)	Maximum rated current (amperes)	Maximum voltage drop (volts)	Minimum full-load insertion loss (dB) in accordance with MIL-STD-220 at 25°C
					Above 1 MHz
0001	2L ₁	.1	2.0	.2	80
0002	2L ₁	1.5	.3	.45	80
0003	2L ₂	5	.1	.5	55 dB at 50 kHz, 90 dB from 120 kHz to 1 GHz

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

Force: 5 pounds.

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

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 B (20 g's).

Moisture resistance: In accordance with MIL-PRF-15733. The following exceptions shall apply:

Polarization voltage: 28 V dc.

Measurements after 24-hour drying period:

Insulation resistance: Shall be not less than 50 megohms.

Life: In accordance with MIL-PRF-15733 and method 108, MIL-STD-202; test condition D (1,000 hours), for qualification inspection and test condition B (250 hours) for group C inspection.

Part or Identifying Number (PIN): M15733/56- (dash number from table I).

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:
Air Force - 11
Navy - EC
DLA - CC

Preparing activity:
DLA - CC

(Project 5915-0427)