

INCH-POUND

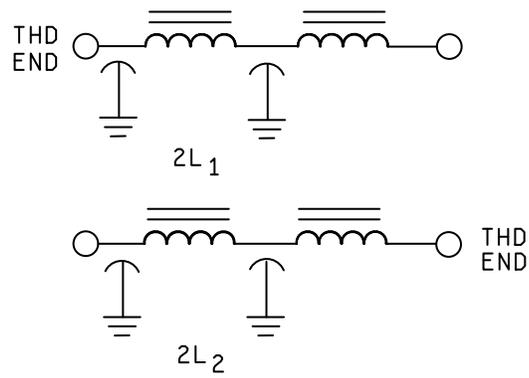
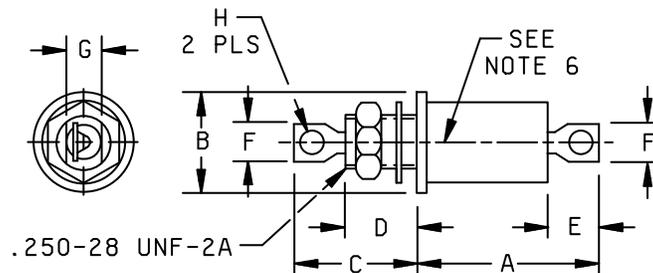
MIL-PRF-15733/56D
w/AMENDMENT 2
2 June 2009
SUPERSEDING
MIL-PRF-15733/56D
w/AMENDMENT 1
5 February 2009

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 requirements for acquiring the filters described herein shall consist of this specification sheet and [MIL-PRF-15733](#).



CIRCUIT CONFIGURATION (2L)

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 $\pm .010$
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: 50 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).

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

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

Changes from previous issue. The margins of this specification sheet are marked with asterisks 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.

Custodians:
Air Force - 85
Navy - EC
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Preparing activity:
DLA - CC
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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>.