INCH-POUND

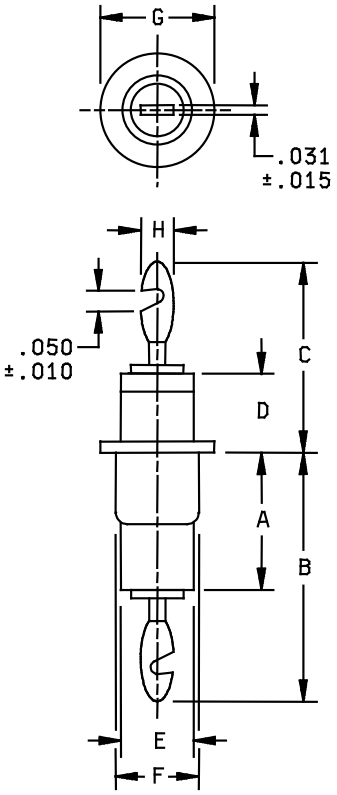
MIL-PRF-15733/40D
3 March 2015
SUPERSEDING
MIL-PRF-15733/40C
W/AMENDMENT 1
21 April 2008

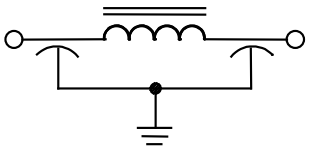
PERFORMANCE SPECIFICATION SHEET

FILTERS, RADIO INTERFERENCE, STYLE FL35

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.





TYPICAL CIRCUIT DIAGRAM

FIGURE 1. Dimensions and configuration.

AMSC N/A

FSC 5915

Dash No.	A		B		C		D		E		F	G		H
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Max	Min	Max	±.015
0001	.375 (9.53)	437 (11.10)	.656 (16.66)	.718 (18.21)	469 (11.86)	.531 (13.49)	.187 (4.75)	.249 (6.32)	.172 (4.37)	.202 (5.13)	.234 (5.94)	.281 (7.14)	.343 (8.71)	.093 (2.36)

NOTES:
1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Circuit diagram for information only.

FIGURE 1. Dimensions and configuration (continued)

REQUIREMENTS:

Configuration and dimensions: See figure I.

Weight: 2.7 grams maximum.

Case: Not applicable (metallic mounting eyelet).

Terminals: Solderable (see figure 1). Pure tin finish is prohibited (see MIL-PRF-15733).

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

Rated voltage: 500 V dc or 350 V rms to 400 Hz, over the operating temperature range.

Rated current: 25 amperes, dc or ac (rms).

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

Seal: Not applicable.

Capacitance to ground: In accordance with MIL-PRF-15733. Measured capacitance shall be at least 3,000 pF.

Temperature rise: +25°C, maximum.

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

Test voltage: 1,500 V dc applied for 1 to 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. Insulation resistance measured at 25°C between either terminal and the case shall be at least 10 G ohms.

Voltage drop: Not applicable.

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

Measurements at +25°C after test: 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): Not applicable.

Thermal shock: Not applicable.

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

Polarization voltage: Not applicable.

Loading voltage: Not applicable.

Measurements after 24-hour drying period, at a temperature not to exceed +85°C, and a relative humidity of 50 percent.

Insulation resistance shall be not less than 1 G ohm.

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

Measurements after test:

Insulation resistance shall be not less than 1 G ohm.

Marking: Filters shall not be marked. Full marking, in accordance with MIL-PRF-15733, shall be marked on the unit package.

Part or Identifying Number (PIN): M15733/40- (dash number from table I).

TABLE I. 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	40	55	65	70	70

Referenced documents. In addition to MIL-PRF-15733, this document also references the following:

MIL-STD-202
MIL-STD-220

The margins of this specification sheet are marked with vertical lines to indicate where modifications from this revision 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.

Custodians:
Army - CR
Navy - EC
Air Force - 85
DLA - CC

Preparing activity:
DLA - CC

(Project 5915-2015-010)

Review activities:
Army – AT
Navy - AS, MC, OS, SH
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/.