

INCH-POUND

MIL-F-15733/64A  
26 September 2003  
SUPERSEDING  
MIL-F-15733/64  
26 June 1978

MILITARY SPECIFICATION SHEET

FILTERS, RADIO FREQUENCY INTERFERENCE,  
STYLE FL49

This specification 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 and the latest issue of MIL-PRF-15733.

MIL-F-15733/64 is inactive for new design after 31 July 1993.

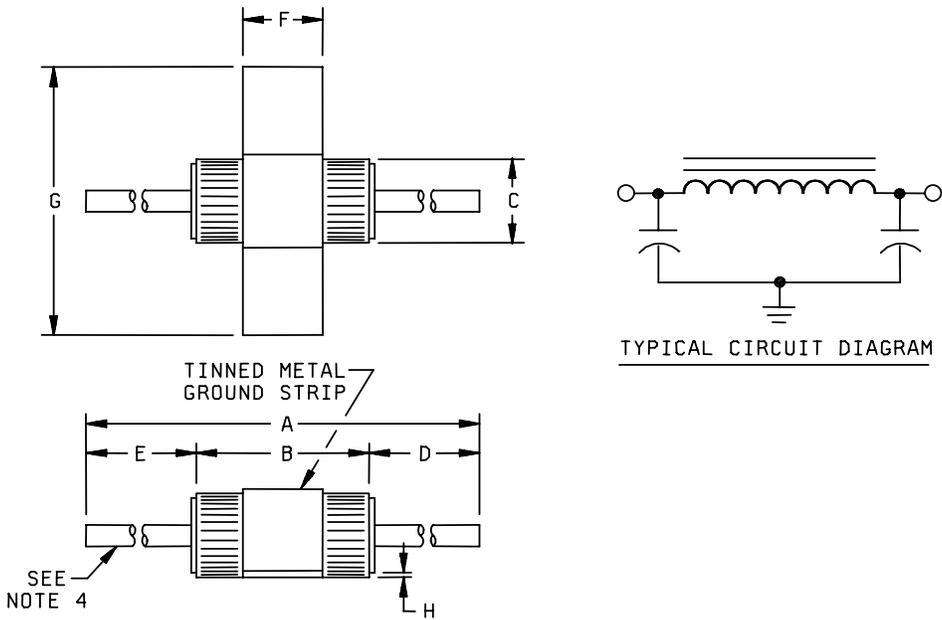


FIGURE 1. Case and circuit configuration.

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Dash number	A		B		C		D	
	Min	Max	Min	Max	Min	Max	Min	Max
0001	1.049 (26.64)	1.111 (28.22)	.240 (.610)	.260 (.660)	---	Dia .125 (3.18)	.405 (10.29)	.425 (10.80)

Dash number	E		F		G		H	
	Min	Max	Min	Max	Min	Max	Min	Max
0001	.405 (10.29)	.425 (10.80)	.105 (2.67)	.125 (3.18)	.390 (9.91)	.410 (10.41)	---	.010 (.25)

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are in parentheses and are given for general information only.
3. Circuit diagram is for information only.
4. Leads shall be solid, solder-coated, AWG 20 .032 (.81 mm) diameter.

Figure 1. Case and circuit configuration (continued).

REQUIREMENTS:

Dimensions and configuration: See figure 1.

Weight: 0.7 gram maximum.

Case: Metallic mounting strap.

Terminals: Solderable. Pure tin finish is prohibited.

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

Rated voltage: 70 V dc.

Rated current: 10 amperes, dc.

DC resistance: 0.01 ohm maximum.

Seal: Not applicable.

Capacitance to ground: In accordance with MIL-PRF-15733. Measured capacitance shall be at least 12,000 pF.

Temperature rise: +25°C maximum.

Dielectric withstanding voltage: In accordance with MIL-PRF-15733 except the test voltage of 200 V dc shall be applied for 1 to 5 seconds.

Barometric pressure (reduced): In accordance with MIL-PRF-15733 and method 105, MIL-STD-202; test condition B (50,000 ft). The following exception shall apply:

Dielectric withstanding voltage: In accordance with initial requirements, except that test voltage shall be 1.2 times rated dc voltage.

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 5,000 megohms.

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Voltage drop: Not applicable.

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

Overload: In accordance with MIL-PRF-15733. 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.

TABLE I. Insertion-loss versus frequency.

Dash number	Minimum no-load insertion-loss (dB) at +25°C.					
	10 MHz	20 MHz	100 MHz	400 MHz	1 GHz	10 GHz
0001	25	40	70	65	65	65

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

Thermal shock and immersion: In accordance with MIL-PRF-15733 except that the insulation resistance after the final cycle shall be 1,000 Megohms minimum.

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 (20 G),.

Moisture resistance: Not applicable.

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

Measurements after test:

Insulation resistance shall be not less than 1,000 megohms.

Part or Identifying Number (PIN): M15733/64-0001.

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

Qualification inspection: Qualification inspection is not applicable to this document.

Conformance inspection: Group A inspection only shall be performed. This does not relieve the product from conforming to the group C requirements.

Supersession data: Filters in this specification supersede filters in MIL-F-15733/50 as follows:

MIL-F-15733/50 PIN	MIL-F-15733/64 PIN
M15733/50-0003	M15733/64-0001

NOTES:

Referenced documents. In addition to MIL-PRF-15733, this specification sheet references the following documents.

DEPARTMENT OF DEFENSE STANDARDS

MIL-STD-202

Test Method Standard, Electronic and Electrical Component Parts

(Government documents are available on line at <http://assist.daps.dla.mil/quicksearch> or [www.dodssp.daps.mil](http://www.dodssp.daps.mil) or from the Standardization Document Order Desk, 700 Robbins Avenue 4D, Philadelphia, PA 19111-5094).

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

Custodians:

Army - CR  
Navy - EC  
Air Force - 11  
DLA - CC

Preparing activity:  
DLA - CC

(Project 5915-0432)

Review activities:

Army - AT, AV, MI  
Navy - AS, CG, 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 [www.dodssp.daps.mil](http://www.dodssp.daps.mil).