

INCH-POUND

MIL-F-15733/53C
31 March 2003
SUPERSEDING
MIL-F-15733/53B(USAF)
19 December 1974

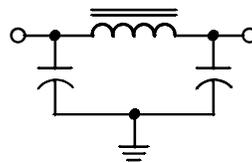
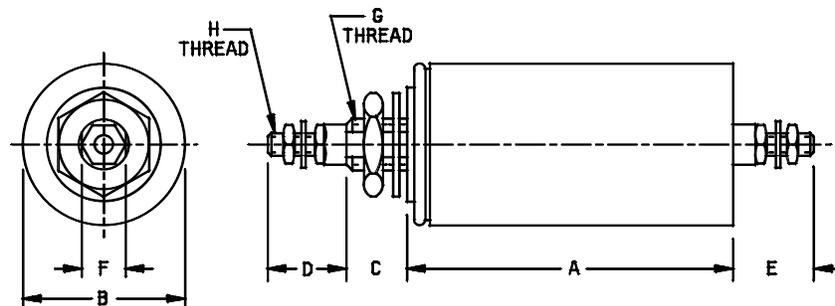
MILITARY SPECIFICATION SHEET

FILTERS, RADIO FREQUENCY INTERFERENCE,
STYLE FL86

This specification sheet is approved for use by all Departments and Agencies of the Department of Defense.

MIL-F-15733/53 is inactive for new design after 7 May 1986 and is no longer used except for replacement purposes. See table III for supersession data.

The complete requirements for acquiring the filters described herein shall consist of this specification sheet and the latest issue of MIL-PRF-15733.



TYPICAL
CIRCUIT DIAGRAM

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are in parentheses.
3. Metric equivalents are given for general information only.
4. Circuit diagram is for information only.
5. Mounting hardware shall be supplied with filter.

TABLE I. Filter dimensions.

Dash number	A		B		C		D	E	F		G	H
	Min	Max	Min	Max	Min	Max	Max	Max	Min	Max	Mounting thread	Terminal thread
0001	3.19 (81.03)	3.31 (84.07)	1.23 (31.24)	1.26 (32.00)	.480 (12.19)	.520 (13.21)	.69 (17.53)	.69 (17.53)	.520 (13.21)	.540 (13.72)	.625-24 UNC-2A	.164-32 UNC-2A
0002	4.94 (125.48)	5.06 (128.52)	1.73 (43.94)	1.76 (44.60)	.480 (12.19)	.520 (13.21)	.69 (17.53)	.69 (17.53)	.646 (16.41)	.666 (16.92)	.750-20 UNC-2A	.164-32 UNC-2A

TABLE II. Insertion -loss (dB) versus frequency (MHz).

Dash number	Rated voltage	Minimum insertion loss full load in accordance with MIL-STD-220 at +25°C.							
		0.15 MHz	0.3 MHz	0.6 MHz	1 MHz	10 MHz	20 MHz	40 MHz	100 MHz
0001	100 V dc	40	58	74	80	80	80	80	80
0002	400 V dc (115 Vac 0-400 Hz)	40	58	74	80	80	80	80	80

MIL-F-15733/53C

MIL-F-15733/53C

REQUIREMENTS:

Dimensions and configuration: See figure and table 1.

Case: Metal.

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

Terminals: Threaded stud.

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

Rated voltage: (over the rated temperature range of -55° to +125°C): See table II.

Rated current: 20 amperes dc.

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

Seal: In accordance with MIL-PRF-15733.

Temperature rise: 25°C, maximum.

Dielectric withstanding voltage: In accordance with MIL-PRF-15733 except the test voltage shall be two times the rated voltage applied between either terminal and case.

Insulation resistance: In accordance with MIL-PRF-15733. Insulation resistance measured at 25°C between either terminal and the case shall be at least 550 megohms.

Voltage drop: 1 percent of rated voltage, maximum.

Terminal strength: In accordance with MIL-PRF-15733 and Method 211, MIL-STD-202; test condition E.

Applied force: 14 pounds.

Flashpoint of impregnant or potting compound: In accordance with MIL-PRF-15733.

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. The following exceptions shall apply:

Mounting: Filters shall be rigidly mounted by the body.

Insertion loss test: Not applicable.

Vibration, high frequency: In accordance with MIL-PRF-15733 and Method 204, MIL-STD-202; test condition B. The following exception shall apply:

Electrical current load shall not be applied to filters during the vibration test

Life: In accordance with MIL-PRF-15733 and method 108, MIL-STD-202; test condition B.

MIL-F-15733/53C

Part or Identifying number (PIN): M15733/53- (dash number from table I).

Supersession data: See table III.

The Qualified Products List (QPL) associated with this inactive for new design specification will be maintained until acquisition of the product is no longer required whereupon the specification and QPL will be canceled.

Table III. Supersession data.

Superseded PIN	Superseding PIN
M15733/53-0001	M15733/72-0048
M15733/53-0002	M15733/73-0049

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:
Navy - EC
Air Force - 11
DLA - CC

Preparing activity:
DLA - CC
(Project 5915-0425)