

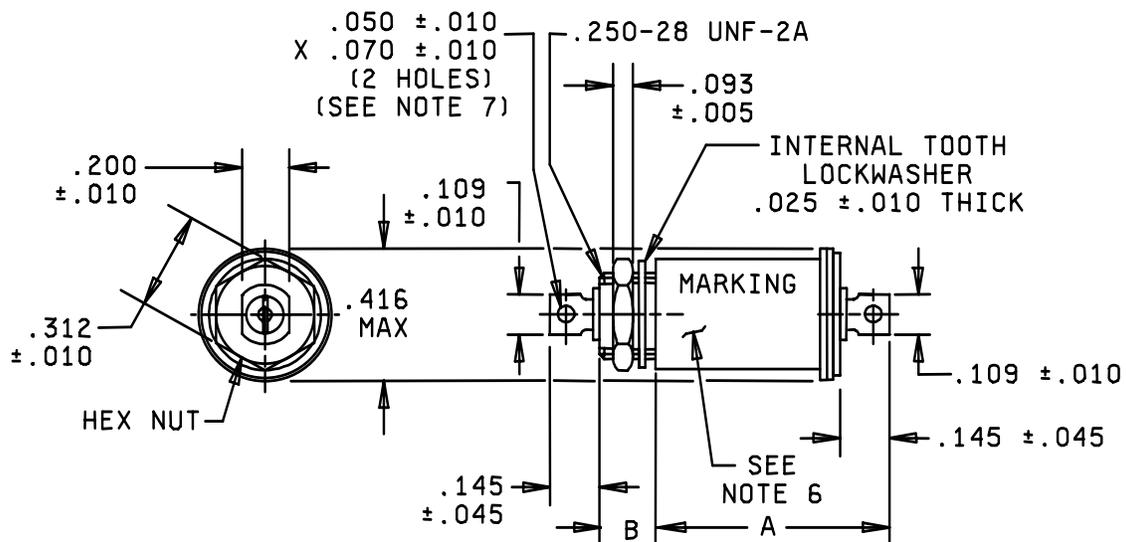
PERFORMANCE SPECIFICATION SHEET

FILTERS, RADIO FREQUENCY INTERFERENCE,
HERMETICALLY SEALED, STYLE FL14

The following part numbers are inactive for new design after 7 May 1990: M15733/26-0001 through M15733/26-0007, M15733/26-0009 through M15733/26-0011, M15733/26-0013 through M15733/26-0019, and M15733/26-0021 through M15733/26-0023. See table III for supersession information.

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

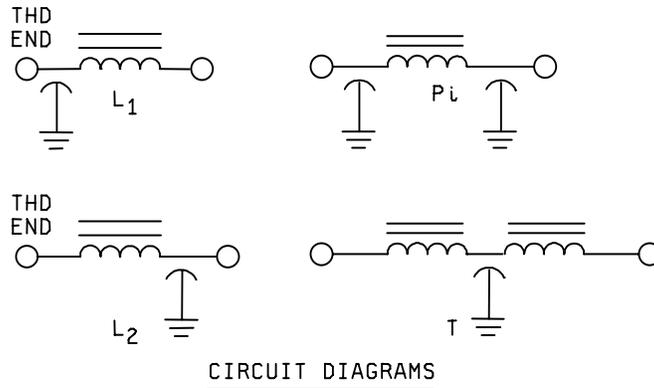
The complete requirements for acquiring the filters described herein shall consist of this specification and the latest issue of MIL-PRF-15733.



Dimension		Dimensions			
B ± .011		A max	B ± .011		A max
.187	.312		.187	.312	
Dash no.	Dash no.		Dash no.	Dash no.	
0001	0013	.743	0007	0019	.743
0002	0014	.793	0008	0020	1.345
0003	0015	.738	0009	0021	.793
0004	0016	.743	0010	0022	.738
0005	0017	.793	0011	0023	.793
0006	0018	.738	0012	0024	1.179

FIGURE 1. Case dimensions and circuit diagrams.

MIL-PRF-15733/26C
w/Amendment 1



Inch	mm	Inch	mm
.005	.13	.145	3.68
.010	.25	.187	4.75
.015	.38	.200	5.08
.025	.64	.312	7.92
.045	1.14	.416	10.57
.050	1.27	.738	18.75
.070	1.78	.743	18.87
.093	2.36	.793	20.14
.109	2.77	1.179	29.95
		1.345	34.16

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 FL14 with or without shoulder is optional.
6. Terminal identification (non-symmetrical filters): The case shall be marked at the threaded end of the filter with the letter "C" or "L" as follows:

Letter	Circuit
C	-----L ₁
L	-----L ₂

7. Optional terminal hole, .070 ±.010 inches may be supplied.
8. Recommended mounting torque: 7 in-lb.

FIGURE 1. Case dimensions and circuit diagrams - Continued.

TABLE I. Dash numbers and electrical characteristics.

Dash number		Circuit dia.	Max rated current (amp) (rms)	Max voltage drop (volts) (rms)	Minimum insertion loss $\frac{1}{2}$ (dB) in accordance with MIL-STD-220														
					At + 25°C					At -55°C					At +125°C				
Dimension B					150 kHz	300 kHz	1 MHz	10 MHz	1&2 GHz	150 kHz	300 kHz	1 MHz	10 MHz	1&2 GHz	150 kHz	300 kHz	1 MHz	10 MHz	1 GHz
.187	.312																		
0001	0013	L ₁	1.00	.250	13	24	45	80	70	12	23	44	80	70	12	24	44	80	70
0002	0014	Pi	1.00	.250	11	32	63	80	70	9	30	61	80	70	12	30	62	80	70
0003	0015	L ₂	1.00	.250	13	24	45	80	70	12	23	44	80	70	12	24	44	80	70
0004	0016	L ₁	3.00	.150	8	15	30	68	70	7	14	29	67	70	7	13	30	67	70
0005	0017	Pi	3.00	.150	5	6	47	80	70	5	3	45	80	70	4	6	46	80	70
0006	0018	L ₂	3.00	.150	8	15	30	68	70	7	14	29	67	70	7	13	30	67	70
0007	0019	L ₁	5.00	.075	8	14	25	58	70	7	13	24	57	70	7	12	24	57	70
0008	0020	T	4.00	.250	11	18	33	80	70	10	17	32	80	70	10	17	33	80	70
0009	0021	Pi	5.00	.075	7	10	35	80	70	7	9	34	80	70	6	8	34	80	70
0010	0022	L ₂	5.00	.075	8	14	25	58	70	7	13	24	57	70	7	12	24	57	70
0011	0023	Pi	.25	.375	29	47	70	80	70	28	45	70	80	70	27	44	70	80	70
0012	0024	T	2.00	.200	13	21	43	80	70	11	20	42	80	70	11	19	43	80	70

1/ Full load insertion loss measurements shall be performed at frequencies between 150 kHz to 10 MHz inclusive; all other measurements shall be performed at no-load.

MIL-PRF-15733/26C
w/Amendment 1

REQUIREMENTS:

Dimensions and configuration: See figure 1 and table I.

Case: Metal.

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

Terminals: Solder lug.

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

Rated voltage: 150 volts dc or 125 volts ac at 60 Hz and 400 Hz.

Rated current: See table I.

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

Seal: In accordance with MIL-PRF-15733.

Capacitance to ground: Not applicable.

Temperature rise: 25°C, maximum.

Dielectric withstanding voltage: In accordance with MIL-PRF-15733 except the duration of application of voltage shall be 1 to 5 seconds.

Insulation resistance: In accordance with MIL-PRF-15733; the following exceptions and details shall apply:

Test temperature: 25°C.

Test potential: Rated dc voltage.

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

Voltage drop: See table I.

Overload: In accordance with MIL-PRF-15733. After the filter has returned to room temperature, insulation resistance and voltage drop measurements shall meet initial requirements.

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 D (20g).

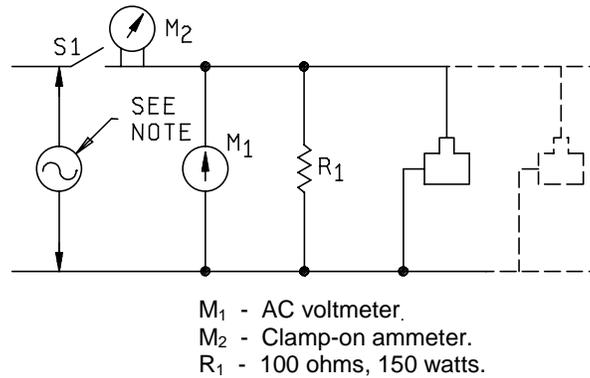
Moisture resistance: In accordance with MIL-PRF-15733 except after the 24 hour drying period, insulation resistance shall meet initial requirements.

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

MIL-PRF-15733/26C
w/Amendment 1

Low temperature power switching: Filters shall be tested using the circuit shown in figure 2. The following steps shall be used:

1. Chill the filters to -55°C and allow 15 minutes minimum for stabilization.
2. Apply 125 volts ac, 400 Hz, making voltage adjustments as quickly as possible to minimize device heating. Open switch 1 and allow the device under test to stabilize at -55°C.
3. Close switch 1 for approximately one second while monitoring the clamp on ammeter (M2) for an indication of high current (shorted filter capacitor). Any failed device must be identified and electrically removed from the test circuit.
4. Allow switch 1 to remain open for 30 seconds minimum.
5. Repeat the procedure of paragraphs 3 and 4 a minimum of 20 times.
6. Allow the devices under test to stabilize at room conditions. Insulation resistance shall be measured and shall meet initial requirements.



NOTE: Power supply shall be capable of delivering 2.0 amperes minimum, 125 volts ac at 400 Hz.

FIGURE 2. Test circuit for low-temperature power switching test.

Conformance inspection: In accordance with MIL-PRF-15733, except as follows:

Group A: The low temperature power switching test shall be performed as a separate subgroup of Group A inspection. Sample size shall be 5 with no failures allowed. Any sample failure on low temperature power switching test shall require a 100 percent inspection of the lot for low temperature power switching. Sample units that fail low temperature power switching shall not be shipped.

Part or identifying number (PIN): M15733/26- (dash number from table I).

Initial qualification to MIL-PRF-15733/26 may be granted based on qualification to MIL-PRF-28861/5 as indicated in table II. Extension of qualification from MIL-PRF-28861/5 is permissible under the following provisions:

- a. The MIL-PRF-15733/26 parts use the same design and dielectric characteristics as the MIL-PRF-28861/5 parts.
- b. The MIL-PRF-28861/5 qualification data verifies that the physical and electrical characteristics of the MIL-PRF-15733/26 parts are satisfied.

MIL-PRF-15733/26C
w/Amendment 1

TABLE II. Extension of qualification.

Qualification to MIL-PRF-28861/5	Will qualify MIL-PRF-15733/26		Qualification to MIL-PRF-28861/5	Will qualify MIL-PRF-15733/26
-003	-0011		-015	-0023
-004	-0001		-016	-0013
-005	-0003		-017	-0015
-006	-0002		-018	-0014
-007	-0004		-019	-0016
-008	-0006		-020	-0018
-009	-0005		-021	-0017
-010	-0007		-022	-0019
-011	-0010		-023	-0022
-012	-0009		-024	-0021

Supersession data: See table III.

TABLE III. Supersession data.

Inactive (PIN) M15733/26-	Superseding Specification	Superseding (PIN) M28861/05-
0001	MIL-PRF-28861/5	004
0002	MIL-PRF-28861/5	006
0003	MIL-PRF-28861/5	005
0004	MIL-PRF-28861/5	007
0005	MIL-PRF-28861/5	009
0006	MIL-PRF-28861/5	008
0007	MIL-PRF-28861/5	010
0009	MIL-PRF-28861/5	012
0010	MIL-PRF-28861/5	011
0011	MIL-PRF-28861/5	003
0013	MIL-PRF-28861/5	016
0014	MIL-PRF-28861/5	018
0015	MIL-PRF-28861/5	017
0016	MIL-PRF-28861/5	019
0017	MIL-PRF-28861/5	021
0018	MIL-PRF-28861/5	020
0019	MIL-PRF-28861/5	022
0021	MIL-PRF-28861/5	024
0022	MIL-PRF-28861/5	023
0023	MIL-PRF-28861/5	015

NOTES:

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

DEPARTMENT OF DEFENSE SPECIFICATIONS

MIL-PRF-28861/5 Filters, Radio Frequency/Electromagnetic Interference Suppression, Hermetically Sealed, Style FS50

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 or from the Standardization Document Order Desk, 700 Robbins Avenue 4D, Philadelphia, PA 19111-5094).

MIL-PRF-15733/26C
w/Amendment 1

Amendment notations. The margins of this specification sheet are marked with asterisks to indicate modifications generated by this amendment. 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 - 11
DLA - CC

Preparing activity:
DLA - CC

(Project 5915-0443)

Review activities:
Army - AR, AT, AV
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 www.dodssp.daps.mil.