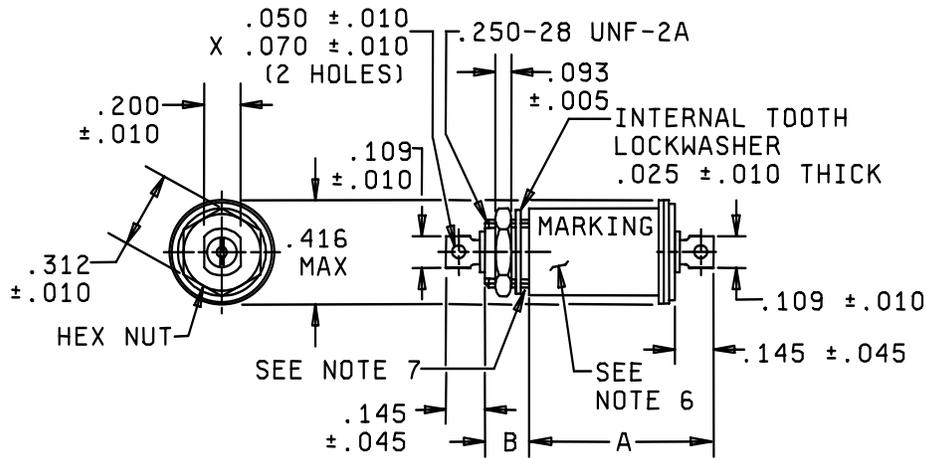


PERFORMANCE SPECIFICATION SHEET
 FILTERS, RADIO FREQUENCY INTERFERENCE,
 HERMETICALLY SEALED, STYLE FL13

The following part numbers are inactive for new design as of 30 September 1987: M15733/25-0001 through -0006, M15733/25-0008 through -0011, M15733/25-0013 through -0018, and M15733/25-0020 through -0023. See table III for supersession data.

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

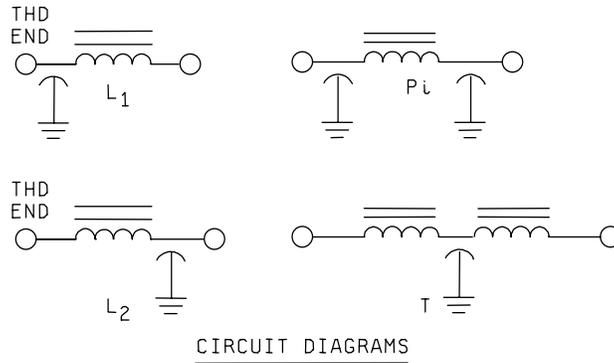
The complete requirements for acquiring the filters described herein shall consist of this specification and the latest issue of MIL-PRF-15733.



Dimension		
B ± .015		A max
.187	.312	
Dash no.	Dash no.	
0001	0013	.743
0002	0014	.793
0003	0015	.728
0004	0016	.793
0005	0017	.743
0006	0018	.793
0007	0019	1.345
0008	0020	.738
0009	0021	.743
0010	0022	.793
0011	0023	.738
0012	0024	1.179

FIGURE 1. Case dimensions and circuit diagrams.

MIL-PRF-15733/25C



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 styles FL13 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. Imperfect threads or undercut permitted out to a maximum of .052 (1.32 mm) from the mounting surface.

FIGURE 1. Case dimensions and circuit diagrams - Continued.

TABLE I. Dash numbers and electrical characteristics.

Dash number		Circuit diagram	Max rated current (amp)	Max voltage drop (volts)	Minimum insertion loss (dB) in accordance with MIL-STD-220. 1/																	
					At 25°C						At -55°C						At +125°C					
Dimension B					75 kHz	150 kHz	300 kHz	1 MHz	10 MHz	1&2 GHz	75 kHz	150 kHz	300 kHz	1 MHz	10 MHz	1&2 GHz	75 kHz	150 kHz	300 kHz	1 MHz	10 MHz	1&2 GHz
.187	.312	L ₁	1.00	.250	15	23	34	55	70	70	14	22	33	54	70	70	14	23	34	55	70	70
0001	0013	L ₁	1.00	.250	15	23	34	55	70	70	14	22	33	54	70	70	14	23	34	55	70	70
0002	0014	Pi	1.00	.250	---	33	52	80	80	70	---	31	50	80	80	70	---	31	50	80	80	70
0003	0015	L ₂	1.00	.250	15	23	34	55	70	70	14	22	33	54	70	70	14	23	34	55	70	70
0004	0016	Pi	3.00	.150	---	17	34	68	80	70	---	15	32	66	80	70	---	15	33	65	80	70
0005	0017	L ₁	5.00	.075	11	17	23	35	69	70	10	16	22	34	68	70	10	16	22	34	69	70
0006	0018	Pi	5.00	.075	---	---	17	57	80	70	---	---	13	55	80	70	---	---	16	55	80	70
0007	0019	T	4.00	.250	16	22	28	43	80	70	15	21	27	42	80	70	14	20	27	43	80	70
0008	0020	L ₂	5.00	.075	11	17	23	35	69	70	10	16	22	34	68	70	10	16	22	34	69	70
0009	0021	L ₁	0.25	.375	24	35	47	68	70	70	23	35	47	67	70	70	23	34	46	67	70	70
0010	0022	Pi	0.25	.375	31	48	66	80	80	70	29	46	64	80	80	70	28	45	63	80	80	70
0011	0023	L ₂	0.25	.375	24	35	47	68	70	70	23	35	47	67	70	70	23	34	46	67	70	70
0012	0024	T	2.00	.200	16	22	31	55	80	70	15	21	30	54	80	70	14	21	30	53	80	70

3 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-15733/25C

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: 100 volts dc.

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 that the duration of application of voltage shall be 1 to 5 seconds.

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

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 requirement.

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-15733/25C

Part or Identifying number (PIN): M15733/25-(dash number from table I).

Initial qualification to MIL-PRF-15733/25 may be granted based on qualification to MIL-PRF-28861/2 as indicated in table II. Extension of qualification from MIL-PRF-28861/2 is permissible under the following provisions:

- a. The MIL-PRF-15733/25 parts use the same design and dielectric characteristics as the MIL-PRF-28861/2 parts.
- b. The MIL-PRF-28861/2 qualification data verifies that the physical and electrical characteristics of the MIL-PRF-15733/25 parts are satisfied.

TABLE II. Extension of qualification.

Qualification to M28861/02	Will qualify M15733/25		Qualification to M28861/02	Will qualify M15733/25
-001	-0009		-013	-0021
-002	-0011		-014	-0023
-003	-0010		-015	-0022
-004	-0001		-016	-0013
-005	-0003		-017	-0015
-006	-0002		-018	-0014
-009	-0004		-021	-0016
-010	-0005		-022	-0017
-011	-0008		-023	-0020
-012	-0006		-024	-0018

Supersession data: See table III.

TABLE III. Supersession data.

Superseded PIN	Superseding specification	Superseding PIN
M15733/25-0001	MIL-PRF-28861/2	M28861/02-004TB
M15733/25-0002	MIL-PRF-28861/2	M28861/02-006TB
M15733/25-0003	MIL-PRF-28861/2	M28861/02-005TB
M15733/25-0004	MIL-PRF-28861/2	M28861/02-009TB
M15733/25-0005	MIL-PRF-28861/2	M28861/02-010TB
M15733/25-0006	MIL-PRF-28861/2	M28861/02-012TB
M15733/25-0008	MIL-PRF-28861/2	M28861/02-011TB
M15733/25-0009	MIL-PRF-28861/2	M28861/02-001TB
M15733/25-0010	MIL-PRF-28861/2	M28861/02-003TB
M15733/25-0011	MIL-PRF-28861/2	M28861/02-002TB
M15733/25-0013	MIL-PRF-28861/2	M28861/02-016TB
M15733/25-0014	MIL-PRF-28861/2	M28861/02-018TB
M15733/25-0015	MIL-PRF-28861/2	M28861/02-017TB
M15733/25-0016	MIL-PRF-28861/2	M28861/02-021TB
M15733/25-0017	MIL-PRF-28861/2	M28861/02-022TB
M15733/25-0018	MIL-PRF-28861/2	M28861/02-024TB
M15733/25-0020	MIL-PRF-28861/2	M28861/02-023TB
M15733/25-0021	MIL-PRF-28861/2	M28861/02-013TB
M15733/25-0022	MIL-PRF-28861/2	M28861/02-015TB
M15733/25-0023	MIL-PRF-28861/2	M28861/02-014TB

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:

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

Preparing activity:

DLA - CC

(Project 5915-0412-06)

Review activities:

Army - AR, AT, AV
Navy - AS, MC, OS, SH
Air Force - 19, 99