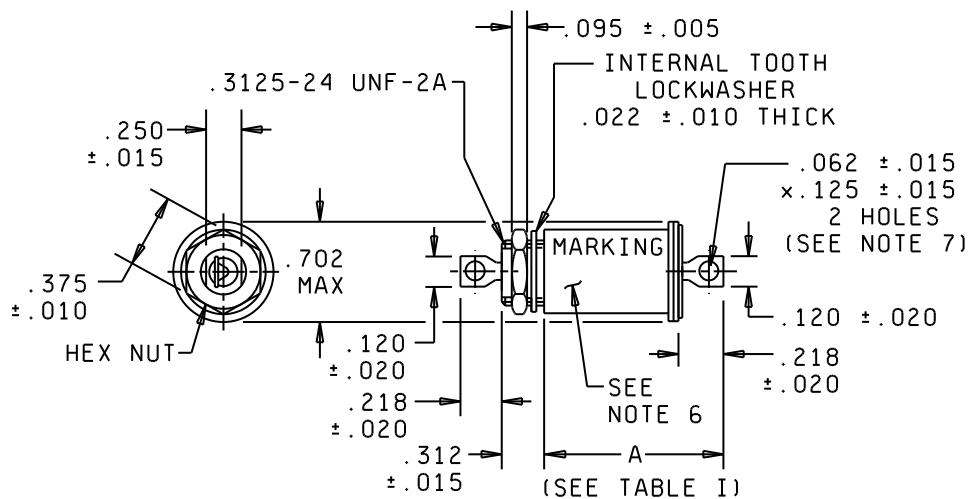


PERFORMANCE SPECIFICATION SHEET

FILTERS AND CAPACITORS, RADIO FREQUENCY INTERFERENCE,
 HERMETICALLY SEALED, STYLE FL15

This specification 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](#).

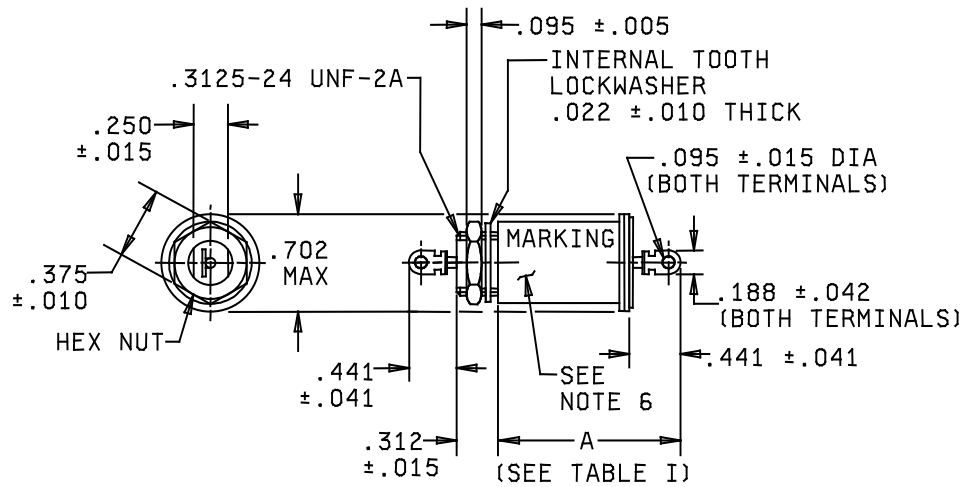


FOR DASH NUMBERS 0001 THROUGH 0013
 AND 0016 THROUGH 0027

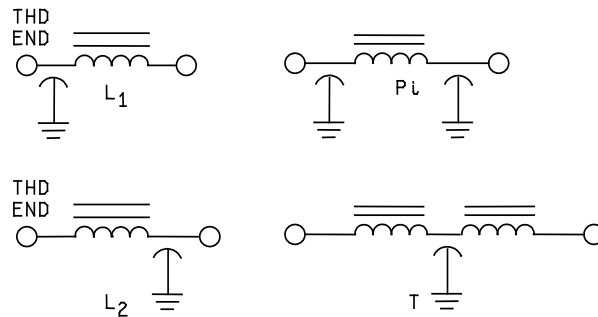
Inch	mm	Inch	mm
.005	0.13	.125	3.18
.010	0.25	.188	4.78
.015	0.38	.218	5.54
.020	0.51	.250	6.35
.022	0.56	.312	7.92
.041	1.04	.3125	7.938
.042	1.07	.375	9.53
.062	1.57	.441	11.20
.095	2.41	.702	17.83

FIGURE 1. Case dimensions and circuit diagrams.





FOR DASH NUMBERS 0014 AND 0015



CIRCUIT DIAGRAMS

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 FL15 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 (1.78 ±0.25 mm) or .050 ±.010 x .070 ±.010 (1.27 ±0.25 mm x 1.78 ±0.25 mm) slot may be supplied.
8. Recommended mounting torque: 60 inch-ounces ±4 inch-ounces.

FIGURE 1. Case dimensions and circuit diagrams - Continued.

TABLE I. Electrical characteristics.

Dash number	Circuit diagram	Dimension A (max) <u>1/</u>	Max rated current	Max Voltage drop		Capacitance -0, +150%	Min full-load insertion loss (dB) in accordance with MIL-STD-220 <u>2/</u>															
							At +25°C								AT -55°C and +125°C							
		inches	amperes rms	Volts ac rms	volts dc	μF	50 kHz	100 kHz	150 kHz	300 kHz	1 MHz	10 MHz	100 MHz	1 GHz	50 kHz	100 kHz	150 kHz	300 kHz	1 MHz	10 MHz	100 MHz	1 GHz
0001	L ₁	.900	1.00	.4	.27	.25	11	18	25	37	58	80	70	70	10	17	24	36	57	80	70	70
0002	L ₂	.900	1.00	.4	.27	.25	11	18	25	37	58	80	70	70	10	17	24	36	57	80	70	70
0003	Pi	1.031	1.00	.4	.27	.5	20	32	43	61	80	80	70	70	18	30	41	60	80	80	70	70
0004	Pi	1.195	1.00	.35	.25	.5	20	36	47	65	80	80	70	70	18	34	45	63	80	80	70	70
0005	L ₁	.900	3.00	.15	.10	.25	5	10	14	21	39	80	70	70	4	9	13	20	39	80	70	70
0006	L ₂	.900	3.00	.15	.10	.25	5	10	14	21	39	80	70	70	4	9	13	20	39	80	70	70
0007	Pi	1.031	3.00	.15	.15	.5	5	10	19	42	74	80	70	70	5	2	16	40	72	80	70	70
0008	L ₁	.900	5.00	.10	.08	.25	5	10	13	19	32	69	70	70	4	9	12	18	31	68	70	70
0009	L ₂	.900	5.00	.10	.08	.25	5	10	13	19	32	69	70	70	4	9	12	18	31	68	70	70
0010	Pi	1.195	5.00	.15	.12	.5	-	-	10	28	64	80	70	70	-	-	10	26	62	80	70	70
0011	L ₁	1.031	10.00	.075	.05	.25	5	8	13	19	30	61	70	70	4	7	12	18	29	60	70	70
0012	L ₂	1.031	10.00	.075	.05	.25	5	8	13	19	30	61	70	70	4	7	12	18	29	60	70	70

See footnotes at end of table.

TABLE I. Electrical characteristics.

Dash number	Circuit diagram	Dimension A (max) (inches) <u>1/</u>	Max rated current amperes rms	Max Voltage drop		Capacitance -0, +150% μF	Min full-load insertion loss (dB) in accordance with MIL-STD-220 <u>2/</u>															
							At +25°C								AT -55°C and +125°C							
				volts ac rms	volts dc		50 kHz	100 kHz	150 kHz	300 kHz	1 MHz	10 MHz	100 MHz	1 GHz	50 kHz	100 kHz	150 kHz	300 kHz	1 MHz	10 MHz	100 MHz	1 GHz
0013	Pi	1.195	10.00	.085	.075	.5	-	-	16	18	48	80	70	70	-	-	15	18	48	80	70	70
0014	L ₁	1.763	15.00	.15	.10	.25	9	15	19	25	36	60	70	70	9	14	18	24	35	59	70	70
0015	L ₂	1.763	15.00	.15	.10	.25	9	15	19	25	36	60	70	70	9	14	18	24	35	59	70	70
0016	T	1.195	.70	.42	.4	.25	19	28	38	56	80	80	70	70	17	27	37	55	80	80	70	70
0017	T	1.195	1.50	.225	.20	.25	6	12	19	32	62	70	70	70	4	11	18	32	61	70	70	70
0018	T	1.195	4.00	.12	.10	.25	6	11	14	21	36	70	70	70	5	10	13	19	35	70	70	70
0019	L ₁	.900	2.00	.2	.10	.25	5	11	15	25	45	80	70	70	4	10	14	24	44	80	70	70
0020	L ₂	.900	2.00	.2	.10	.25	5	11	15	25	45	80	70	70	4	10	14	24	44	80	70	70
0021	Pi	1.031	2.00	.2	.15	.5	1	15	28	48	79	80	70	70	1	12	26	46	77	80	70	70
0022	Pi	1.195	2.00	.22	.15	.5	4	24	36	54	80	80	70	70	2	21	34	52	80	80	70	70
0023	T	1.195	2.00	.17	.16	.25	5	11	15	25	51	70	70	70	4	10	14	24	49	70	70	70
0024	C	0.513	15	.075	.05	.45	8	15	19	25	36	55	65	65	7	14	18	24	35	55	65	65
0025	C	0.701	25	.125	.10	.45	8	15	19	25	36	55	65	65	7	14	18	24	35	55	65	65
0026	C	0.498	15	.075	.05	.25	8	11	13	18	27	45	65	65	7	10	12	16	26	45	65	65
0027	C	0.687	15	.075	.05	.75	17	20	23	28	3	54	65	65	16	19	22	27	53	54	65	65

1/ Metric equivalents are given in figure 1.2/ Full load insertion loss measurements shall be performed at frequencies between 100 kHz to 10 MHz inclusive; all other measurements shall be performed at no load.

MIL-PRF-15733/27E

REQUIREMENTS:

Dimensions and configuration: See figure 1.

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: 200 volts dc/125 volts ac from dc to 400 Hz, inclusive.

Rated current: See table I.

Seal: In accordance with MIL-PRF-15733.

Capacitance to ground: In accordance with MIL-PRF-15733 and table I.

Dissipation factor: 3.0 percent maximum.

Temperature rise: 25°C, maximum.

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

Test potential: Rated dc voltage ± 10 percent.

Insulation resistance: 1,000 megohms minimum at 25°C.
100 megohms minimum at +125°C.

Voltage drop: See table I.

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

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).

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.

Part or Identifying Number (PIN): M15733/27-(dash number from table I).

Extent of qualification: Qualification testing and approval for M15733/27-0001 and -0014 (or -0015) shall be sufficient to grant qualification approval to M15733/27-0001, -0002, -0006, -0008, -0009, -0011, -0012, -0014, -0015, -0019, -0020, and -0026. Qualification testing and approval for M15733/27-0016 and -0018 shall be sufficient to grant qualification approval to M15733/27-0016, -0017, -0018, and -0023. Qualification testing and approval for M15733/27-0025 and -0027 shall be sufficient to grant qualification approval to M15733/27-0024, -0025, -0026, and -0027.

Referenced documents: In addition to [MIL-PRF-15733](#), this specification sheet references the following documents:

[MIL-STD-202](#)

[MIL-STD-220](#)

The margins of this specification 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 59GP-2015-043)

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/>.