

INCH-POUND

MIL-PRF-15733/34P  
24 March 2004  
SUPERSEDING  
MIL-PRF-15733/34N  
22 March 1991

PERFORMANCE SPECIFICATION SHEET

FILTERS AND CAPACITORS, RADIO FREQUENCY INTERFERENCE,  
HERMETICALLY SEALED, STYLE FL90

Part or Identifying Numbers (PIN's) M15733/34-0008, -0022, -0032, -0033, and -0034 are inactive for new design as of 17 October 1986. PIN's M15733/34-0014, -0023, -0025, -0026, and -0027 are inactive for new design as of 15 January 1988. PIN's M15733/34-0010, -0015, -0019, and -0024 are inactive for new design after 22 March 1991. See table IV 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 sheet and MIL-PRF-15733.

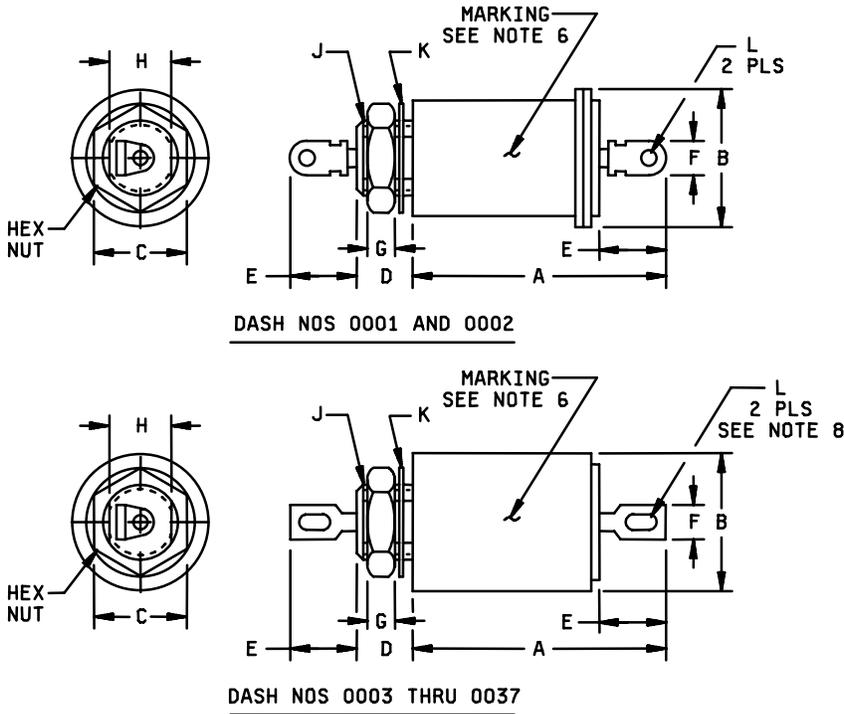
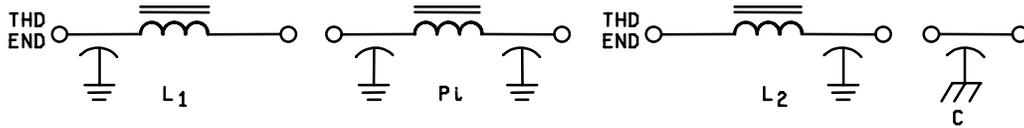


FIGURE 1. Case dimensions and circuit diagrams.



CIRCUIT DIAGRAMS

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. All filters shall be supplied with mounting hardware.
6. Terminal identification (nonsymmetrical filters): The case shall be marked at the threaded end of the filter, with the symbol "C" or the symbol "L", as follows:

Circuit	Symbol
L <sub>1</sub> -----	C
L <sub>2</sub> -----	L

7. Recommended mounting torque:
  - 48 in-oz (.250-28 UNF-2A).
  - 60 in-oz (.3125-24 UNF-2A).
  - 96 in-oz (.216-32 UNF-2A).
8. Dash numbers 0003 through 0037 dimension L configuration is shown as a slot. Actual dimension L configuration shall be as specified in the dimensions table.

FIGURE 1. Case dimensions and circuit diagrams - Continued.

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Dash number	Weight (grams) (max)	A	B	C		D		E	
		Max	Max	Min	Max	Min	Max	Min	Max
0001	34	1.763	.702	.365	.385	.297	.327	.360	.483
0002	34	1.763	.702	.365	.385	.297	.327	.360	.483
0003	8.2	.730	.416	.302	.322	.177	.197	.100	.190
0004	22	1.195	.702	.365	.385	.297	.327	.198	.238
0005	22	1.195	.702	.365	.385	.297	.327	.198	.238
0006	22	1.195	.702	.365	.385	.297	.327	.198	.238
0007	8.2	.760	.385	.302	.322	.177	.197	.100	.190
0008	8.2	.760	.385	.302	.322	.177	.197	.100	.190
0009	22	1.170	.690	.365	.385	.297	.327	.198	.238
0010	9.0	.793	.416	.302	.322	.302	.322	.100	.190
0011	34	.890	.702	.365	.385	.302	.322	.199	.235
0012	34	.890	.702	.365	.385	.302	.322	.199	.235
0013	34	.890	.702	.365	.385	.302	.322	.199	.235
0014	8.5	.730	.416	.302	.322	.302	.322	---	.190
0015	8.5	.743	.416	.302	.322	.302	.322	---	.190
0016	34	.890	.416	.302	.322	.159	.221	.140	.160
0017	8.5	.743	.416	.302	.322	.159	.221	.140	.160
0018	8.5	.743	.416	.302	.322	.159	.221	.140	.160

<u>Inches</u>	<u>mm</u>	<u>Inches</u>	<u>mm</u>	<u>Inches</u>	<u>mm</u>	<u>Inches</u>	<u>mm</u>
.003	0.08	.099	2.51	.200	5.08	.365	9.27
.010	0.25	.100	2.54	.205	5.21	.385	9.78
.015	0.38	.119	3.02	.206	5.23	.410	10.41
.018	0.46	.125	3.17	.210	5.33	.416	10.57
.020	0.51	.130	3.30	.216	5.49	.474	12.04
.022	0.56	.140	3.56	.221	5.61	.483	12.27
.025	0.64	.146	3.71	.230	5.84	.575	14.61
.050	1.27	.159	4.04	.231	5.87	.600	15.24
.057	1.45	.160	4.06	.235	5.97	.690	17.53
.060	1.52	.162	4.11	.238	6.05	.702	17.83
.062	1.57	.169	4.29	.240	6.10	.730	18.54
.063	1.60	.177	4.50	.250	6.35	.743	18.87
.070	1.78	.180	4.57	.260	6.60	.760	19.30
.077	1.96	.182	4.62	.265	6.73	.778	19.76
.080	2.03	.186	4.72	.297	7.54	.793	20.14
.083	2.11	.190	4.83	.302	7.67	.890	22.61
.088	2.24	.195	4.95	.312	7.92	.900	22.86
.090	2.29	.196	4.98	.3125	7.938	1.170	29.72
.093	2.36	.197	5.00	.322	8.18	1.195	30.35
.095	2.41	.198	5.03	.327	8.31	1.219	30.96
.098	2.49	.199	5.05	.360	9.14	1.763	44.78

FIGURE 1. Case dimensions and circuit diagrams - Continued.

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Dash No.	F		G		H		J	K	L
	Min	Max	Min	Max	Min	Max	Mounting thread	Internal tooth lockwasher thickness	Wire hole or slot
0001	.146	.230	.090	.100	.235	.265	.3125-24 UNF-2A	.022 ± .010	.095 ± .015 dia
0002	.146	.230	.090	.100	.235	.265	.3125-24 UNF-2A	.022 ± .010	.095 ± .015 dia
0003	.083	.130	.088	.098	.190	.210	.250-28 UNF-2A	.025 ± .010	.050 ± .010 dia or .070 ± .010 dia or .050 ± .010 x .070 ± .010
0004	.099	.140	.090	.100	.235	.265	.3125-24 UNF-2A	.022 ± .010	.062 ± .015 x .125 ± .015
0005	.099	.140	.090	.100	.235	.265	.3125-24 UNF-2A	.022 ± .010	.062 ± .015 x .125 ± .015
0006	.099	.140	.090	.100	.235	.265	.3125-24 UNF-2A	.022 ± .010	.062 ± .015 x .125 ± .015
0007	.100	.130	.088	.098	.190	.210	.250-28 UNF-2A	.025 ± .010	.070 ± .020 dia
0008	.100	.130	.088	.098	.190	.210	.250-28 UNF-2A	.025 ± .010	.070 ± .020 dia
0009	.099	.140	.090	.100	.235	.265	.3125-24 UNF-2A	.022 ± .010	.060 ± .020 dia or .060 ± .015 x .125 ± .015
0010	.100	.130	.090	.100	.190	.210	.250-28 UNF-2A	.025 ± .010	
0011	.099	.140	.090	.100	.235	.265	.3125-24 UNF-2A	.025 ± .010	.093 ± .020 dia or .062 ± .010 x .125 ± .010
0012	.099	.140	.090	.100	.235	.265	.3125-24 UNF-2A	.025 ± .010	
0013	.099	.140	.090	.100	.235	.265	.3125-24 UNF-2A	.025 ± .010	.093 ± .020 dia or .062 ± .010 x .125 ± .010
0014	.100	.130	---	.100	.190	.210	.250-28 UNF-2A	.025 ± .010	.060 ± .020 dia or .060 ± .015 x .125 ± .015
0015	.099	.119	.088	.098	.190	.210	.250-28 UNF-2A	.022 ± .010	.062 ± .020 dia or .050 ± .010 x .070 ± .010
0016	.100	.190	.088	.098	.169	.231	.250-28 UNF-2A	.022 ± .010	.062 ± .020 dia or .050 ± .010 x .070 ± .010
0017	.100	.190	.088	.098	.169	.231	.250-28 UNF-2A	.022 ± .010	.062 ± .020 dia or .050 ± .010 x .070 ± .010
0018	.100	.190	.088	.098	.169	.231	.250-28 UNF-2A	.022 ± .010	.062 ± .020 dia or .050 ± .010 x .070 ± .010

FIGURE 1. Case dimensions and circuit diagrams - Continued.

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Dash no.	Weight (grams) (max)	A	B	C		D		E	
		Max	Max	Min	Max	Min	Max	Min	Max
0019	9.0	.793	.416	.302	.322	.297	.327	---	.190
0020	34	.900	.702	.365	.385	.297	.327	.198	.238
0021	34	.900	.702	.365	.385	.297	.327	.198	.238
0022	8	.760	.385	.302	.322	.182	.190	---	.190
0023	8	.760	.385	.302	.322	.182	.190	---	.190
0024	8	.760	.385	.302	.322	.182	.190	---	.190
0025	8	.760	.385	.302	.322	.182	.190	---	.190
0026	8	.760	.385	.302	.322	.182	.190	---	.190
0027	8	.760	.385	.302	.322	.182	.190	---	.190
0028	8	.760	.385	.302	.322	.182	.190	---	.190
0029	16	.900	.702	.365	.385	.297	.327	---	.238
0030	8	.900	.416	.302	.322	.159	.221	---	.190
0031	22	1.219	.702	.365	.385	.297	.327	---	.312
0032	9	.730	.416	.302	.322	.302	.322	---	.190
0033	9	.778	.416	.302	.322	.302	.322	---	.190
0034	9	.760	.385	.302	.322	.302	.322	---	.190
0035	7	.474	.410	.297	.327	.180	.200	---	.162
0036	8	.600	.385	.297	.327	.180	.200	---	.162
0037	9	.575	.690	.365	.385	.297	.327	.198	.236

FIGURE 1. Case dimensions and circuit diagrams - Continued.

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Dash no.	F		G		H		J	K	L
	Min	Max	Min	Max	Min	Max	Mounting thread	Internal tooth lockwasher thickness	Wire hole or slot
0019	.100	.190	.090	.100	.196	.206	.250-28 UNF-2A	.022 ± .010	.060 ± .020 dia or .060 ± .015 x .125 ± .015
0020	.099	.140	.090	.100	.235	.265	.3125-24 UNF-2A	.022 ± .010	.062 ± .015 x .125 ± .015
0021	.099	.140	.090	.100	.235	.265	.3125-24 UNF-2A	.022 ± .010	.062 ± .015 x .125 ± .015
0022	.100	.190	.080	.100	.190	.210	.250-28 UNF-2A	.018 ± .003	.070 ± .020 dia
0023	.100	.190	.080	.100	.190	.210	.250-28 UNF-2A	.018 ± .003	.070 ± .020 dia
0024	.100	.190	.080	.100	.190	.210	.250-28 UNF-2A	.018 ± .003	.070 ± .020 dia
0025	.100	.190	.080	.100	.190	.210	.250-28 UNF-2A	.018 ± .003	.070 ± .020 dia
0026	.100	.190	.080	.100	.190	.210	.250-28 UNF-2A	.018 ± .003	.070 ± .020 dia
0027	.100	.190	.080	.100	.190	.210	.250-28 UNF-2A	.018 ± .003	.070 ± .020 dia
0028	.100	.190	.080	.100	.190	.210	.250-28 UNF-2A	.018 ± .003	.070 ± .020 dia
0029	---	.140	---	.100	.235	.265	.3125-24 UNF-2A	.022 ± .010	.062 ± .015 x .125 ± .015
0030	.100	.190	.088	.098	.190	.210	.250-28 UNF-2A	.022 ± .010	.060 ± .020 dia or .070 ± .010 dia or .050 ± .010 x .070 ± .010
0031	---	.140	---	.100	.240	.260	.3125-24 UNF-2A	.025 ± .010	.062 ± .015 x .125 ± .015
0032	---	.130	---	.100	.196	.206	.250-28 UNF-2A	.025 ± .010	.060 ± .020 dia
0033	---	.130	---	.100	.195	.205	.250-28 UNF-2A	.025 ± .010	.060 ± .020 dia
0034	.100	.190	.080	.100	.190	.210	.250-28 UNF-2A	.018 ± .003	.070 ± .020 dia
0035	.100	.190	.057	.077	---	.186	.216-32 UNEF-2A	.022 ± .010	.063 max dia. or .050 ± .010 x .070 ± .010
0036	.100	.190	.057	.077	---	.186	.216-32 UNEF-2A	.022 ± .010	.063 (1.60) max or .050 ± .010 x .070 ± .010
0037	.100	.190	.080	.100	---	.260	.3125-24 UNF-2A	MS35336-62	.062 ± .015 x .125 ± .015

FIGURE 1. Case dimensions and circuit diagrams - Continued.

TABLE I. Electrical characteristics.

Cap. ( $\mu$ F)	Rated voltage (volts)		Ckt dia- gram	Max curr- ent (amp)	Max Voltage drop (volts)	Minimum insertion loss (db) in accordance with MIL-STD-220 1/																				Dash no.		
	dc	$\frac{2}{ac}$				At +25°C										At -55°C and +125°C												
						dc	ac	30 kHz	50 kHz	75 kHz	100 kHz	150 kHz	300 kHz	500 kHz	1 MHz	10 MHz	1 GHz	30 kHz	50 kHz	75 kHz	100 kHz	150 kHz	300 kHz	500 kHz	1 MHz		10 MHz	1 GHz
.5	300	125	L <sub>1</sub>	10	.30	1.2	5	-	-	-	19	25	-	30	57	70	4	-	-	-	18	24	-	30	56	70	0012	
.25	200	125	L <sub>1</sub>	2	.20	1.2	-	5	-	11	15	25	-	45	70	70	-	-	-	11	15	25	-	45	70	70	0029	
.5	200	125	P <sub>i</sub>	2	.22	1.2	-	4	-	24	36	54	-	80	80	70	-	-	-	21	34	52	-	80	80	70	0006	
.25	200	125	L <sub>1</sub>	3	.20	1.2	2	6	-	-	15	20	-	34	67	70	-	4	-	-	13	18	-	32	65	70	0016	
.25	200	125	L <sub>1</sub>	3	.15	1.2	-	5	-	10	14	21	-	39	70	70	-	-	-	9	13	20	-	39	70	70	0020	
.25	200	125	L <sub>1</sub>	5	.10	1.2	-	5	-	10	13	19	-	32	69	70	-	-	-	9	12	18	-	31	68	70	0021	
.25	200	125	L <sub>2</sub>	5	.75	1.2	2	5	-	-	15	21	-	32	60	70	2	5	-	-	15	21	-	32	60	70	0030	
.5	200	125	P <sub>i</sub>	5	.10	1.2	-	-	-	-	10	28	-	64	80	70	-	-	-	-	8	26	-	62	80	70	0004	
.5	200	125	P <sub>i</sub>	10	.75	1.2	-	-	-	-	16	18	-	48	80	70	-	-	-	-	15	17	-	48	80	70	0005	
.36	200	125	L <sub>1</sub>	20	.10	1.2	-	9	-	14	19	25	-	35	57	70	-	-	-	13	17	23	-	34	55	70	0001	
.36	200	125	L <sub>2</sub>	20	.10	1.2	-	9	-	14	19	25	-	35	57	70	-	-	-	13	17	23	-	34	55	70	0002	
-	150	125	P <sub>i</sub>	.5	.18	1.2	-	15	-	35	46	65	70	70	70	70	-	14	-	34	45	64	70	70	70	70	0032 3/	
-	150	125	P <sub>i</sub>	1	.25	1.2	-	-	-	6	23	40	50	70	80	80	-	-	-	3	20	37	47	67	80	80	0033 3/	
.25	150	125	L <sub>2</sub>	2	.13	1.2	-	-	-	-	8	15	20	30	68	70	-	-	-	-	7	14	19	29	67	70	0010 3/	
.15	150	125	L <sub>1</sub>	3	.15	1.2	-	-	-	-	8	15	-	30	68	70	-	-	-	-	7	14	-	29	67	70	0015 3/	
.3	150	125	P <sub>i</sub>	3	.15	1.2	-	-	-	-	-	20	37	55	80	80	-	-	-	-	-	18	35	53	80	80	0019 3/	
.5	150	125	P <sub>i</sub>	3	.30	1.2	-	-	-	12	27	47	61	80	80	80	-	-	-	11	26	46	60	80	80	80	0031	
.33	150	125	L <sub>1</sub>	10	.08	1.2	-	9	-	14	18	24	28	34	54	70	-	8	-	13	17	23	27	33	53	70	0011	
.25	150	125	L <sub>2</sub>	10	.30	1.2	-	6	-	12	14	21	25	30	54	70	-	5	-	11	13	20	24	29	53	70	0013	
-	100	-	P <sub>i</sub>	.1	1.0	-	40	-	60	68	70	70	70	70	70	70	38	-	60	68	70	70	-	70	70	70	0022 3/	

See footnotes at end of table.

TABLE I. Electrical characteristics - Continued.

Cap (μF)	Rated voltage (volts)		Ckt. dia-gram	Max Curr-ent (amp)	Max Voltage drop (volts)	Minimum insertion loss (db) in accordance with MIL-STD-220 <u>1/</u>																				Dash no.	
	dc	<u>2/</u> ac				At +25°C										At -55°C and +125°C											
						dc	ac	30 kHz	50 kHz	75 kHz	100 kHz	150 kHz	300 kHz	500 kHz	1 MHz	10 MHz	1 GHz	30 kHz	50 kHz	75 kHz	100 kHz	150 kHz	300 kHz	500 kHz	1 MHz		10 MHz
1.0	100	-	Pi	.25	1.0	-	28	-	52	60	70	70	70	70	70	70	28	-	52	60	70	70	-	70	70	70	0023 <u>3/</u>
.75	100	-	L <sub>1</sub>	.5	.10	-	13	18	-	-	33	44	-	64	70	70	11	16	-	-	31	42	-	62	68	70	0018
1.0	100	-	Pi	.5	.50	-	18	-	40	49	59	70	-	70	70	70	18	-	40	49	59	70	-	70	70	70	0024 <u>3/</u>
1.0	100	-	Pi	1	.25	-	-	-	22	32	48	64	-	70	70	70	-	-	22	32	48	64	-	70	70	70	0025 <u>3/</u>
1.0	100	-	Pi	2	.13	-	-	-	-	-	30	48	-	70	70	70	-	-	-	-	30	48	-	70	70	70	0026 <u>3/</u>
1.0	100	-	Pi	3	.11	-	-	-	-	-	10	34	-	70	70	70	-	-	-	-	10	34	-	70	70	70	0027 <u>3/</u>
1.0	100	-	Pi	5	.10	-	-	-	-	22	39	58	-	80	80	80	-	-	-	20	37	56	-	80	80	80	0009
1.5	100	-	Pi	5	.05	-	-	-	-	-	-	17	-	55	70	70	-	-	-	-	-	14	-	45	70	70	0014 <u>3/</u>
.75	100	-	L <sub>1</sub>	10	.10	-	10	15	-	-	26	29	-	38	44	70	8	13	-	-	24	27	-	36	42	70	0017
1.0	100	-	Pi	10	.03	-	9	-	12	18	24	29	-	40	52	62	9	-	12	18	24	29	-	40	52	62	0028
-	100	-	Pi	10	.03	-	9	-	12	18	24	29	-	40	52	62	9	-	12	18	24	29	-	40	52	62	0034 <u>3/</u>
1.4	50	-	Pi	2	.14	-	-	-	-	33	46	65	76	80	80	80	-	-	-	31	44	63	74	78	78	80	0003
1.4	28	-	L <sub>2</sub>	.45	.54	-	15	-	-	-	29	33	-	46	66	70	-	-	-	-	17	21	-	34	54	70	0008 <u>3/</u>
1.4	28	-	L <sub>2</sub>	10	.10	-	15	-	-	-	28	31	-	42	56	70	-	-	-	-	16	19	-	30	44	70	0007
0.3	100	-	C	10	.04	-	-	10	-	15	19	25	-	35	55	70	-	8	-	13	17	23	-	35	55	70	0035
1.1	50	-	C	10	.04	-	-	17	-	23	28	33	-	44	48	70	-	15	-	21	26	31	-	44	48	70	0036
0.36	275	125	C	15	.075	-	-	9	-	13	15	21	-	31	51	70	-	7	-	11	13	19	-	31	51	70	0037

1/ Insertion loss measurements shall be made under full load over the frequency range of 100 kHz to 10 MHz. Insertion loss measurements above or below this frequency range shall be made under no-load.

2/ 0 to 400 Hz.

3/ Inactive for new design.

REQUIREMENTS:

Dimensions and configuration: See figure 1.

Weight: See figure 1.

Case: Metal.

Case and mounting hardware finish: In accordance with MIL-PRF-15733. Pure tin finish is prohibited as an undercoat and as a final finish (see MIL-PRF-15733).

Terminals: Solderable. Pure tin finish is prohibited as an undercoat and as a final finish (see MIL-PRF-15733).

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

Rated voltage: See table I.

Rated current: See table I.

Insertion loss: at 25°C and temperature extremes, see table I.

Voltage conditioning (applicable to conformance inspection only): Prior to group A inspection, 100 percent of each lot of filters shall be subjected to voltage conditioning as follows:

Test temperature: +125°C, +4°C, -0°C.

Test voltage:

For dc rated filters: 2 times rated voltage.

For ac and dc rated filters: 1.2 times rated ac voltage at maximum rated frequency.

Duration of exposure to test voltage: 100 ±4 hours (-0001 through -0021, and -0029 through -0033); and 164 ±4 hours (-0022 through -0028 and -0034).

Measurements after completion of exposure: While filters are stabilized at +125° C, insulation resistance shall be measured at +125°C. Filters shall then be stabilized at +25°C, and insulation resistance shall be measured.

Insulation resistance (at +125°C): Shall be not less than 100 megohms.

Insulation resistance (at 25°C): Shall be not less than 1,000 megohms.

A reject shall be defined as a filter whose insulation resistance does not meet the requirements specified in this test. If the total rejects from any particular lot exceed 10 percent, the entire lot shall be rejected.

Radiographic inspection: Following group A inspection, 100 percent of each lot of filters shall be subjected to radiographic inspection as follows:

- a. Radiographic quality: The radiograph shall render a clear sharp image of the penetrameter.
- b. Image quality indicator: A radiograph of the penetrameter shall be included on each radiographic film. The penetrameter may be made from a sample filter of the same type as the filter being radiographed, with an AWG number 48 tungsten wire mounted across the filter body.
- c. Positions of specimen: Two views normal to the major axis of the part shall be taken. One view shall be 90 degrees from the other.
- d. Evaluation of images: Special kind of viewing equipment; magnifying glass of 10x magnification or a 7x optical comparator.

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- e. Examination: The filter examination shall include, but not be limited to, inspection for faulty lead connections, misalignment of internal parts, solder defects, and physical damage of electrical elements.
- (1) Extraneous material.
    - (a) There shall be no loose metallic particles (solder balls) greater than .010 inch (0.25 mm) in the major dimension.
    - (b) There shall be no solder splash on the winding or the capacitor.
    - (c) There shall be evidence of a 240 degree minimum solder joint between capacitor and case.
    - (d) There shall be no metallic objects bridging the coil to the capacitor nor contact between the capacitor and the coil.
  - (2) Internal damage: There shall be no nicks, gouges, cracks, or other imperfections in the wire, core, capacitor, or other internal elements.
  - (3) Alignment of internal elements: The capacitor element shall be properly seated within its defined location and shall not be tilted or misaligned more than 10 degrees with respect to the case centerline.
  - (4) Bonds: There shall be no evidence of improper bonding (defective welds) on internal lead connections.
- f. Failures from the radiographic inspection shall be removed from the lot.

Seal: In accordance with MIL-PRF-15733.

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

Capacitance tolerance: +150 percent, -0 percent.

Temperature rise: In accordance with MIL-PRF-15733. Temperature rise shall be +25°C, maximum (for -0001 through -0009, -0014 through -0018, and -0020 through -0037); and +40°C, maximum (for -0010 through -0013, and -0019).

Insulation resistance: In accordance with MIL-PRF-15733. The following detail shall apply:

Insulation resistance shall be not less than 1,000 megohms (500 megohms for -0036 only).

Dissipation factor: 3 percent maximum.

Voltage drop: See table I.

Insertion loss: In accordance with MIL-PRF-15733 at 25°C and temperature extremes; see table I.

Transient voltage: Filters with both dc and ac voltage rating shall withstand the transient over voltages specified in MIL-STD-704 for 400 hertz ac systems.

Measurements at +25°C after test: Insulation resistance and voltage drop shall meet the 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.

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Vibration, high frequency: In accordance with MIL-PRF-15733 and method 204, MIL-STD-202; test condition D (20 G).

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

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

VERIFICATION

Qualification inspection:

Transient voltage test shall be included in MIL-PRF-15733 qualification inspection group I following the overload test.

Conformance inspection: Conformance inspection shall be as specified in MIL-PRF-15733. The following exceptions shall apply:

- a. Prior to group A inspection, 100 percent of the lot shall be subjected to voltage conditioning and radiographic inspection. Failures shall be removed from the lot. If total rejects from the voltage conditioning test exceed 10 percent, the entire lot shall be rejected.
- b. Group C inspection shall include the voltage transient test as specified in table II of this specification sheet.

Table II. Group C inspection 1/

Inspection	Number of samples to be inspected	Number of defectives allowed
<u>Subgroup 6</u> Transient voltage	4	0

1/ This table is in addition to the group C inspection table shown in MIL-PRF-15733

Extension of qualification:

Qualification testing and approval for M15733/34-0005, -0006, and -0001 shall be sufficient to grant qualification approval to M15733/34-0029, -0006, -0016, -0020, -0021, -0030, -0004, -0005, -0001, and -0002.

Qualification testing and approval for M15733/34-0010, -0019, and -0011, shall be sufficient to grant qualification approval to M15733/34-0010, -0015, -0019, -0011, and -0013.

Qualification testing and approval for M15733/34-0023 and -0028 shall be sufficient to grant qualification approval to M15733/34-0023, -0018, -0024, -0025, -0026, -0027, -0009, -0014, -0017, -0028, and -0035.

Initial qualification to MIL-PRF-15733/34 may be granted based on qualification to MIL-PRF-28861 or MIL-PRF-15733/49 as indicated in table III. Extension of qualification from MIL-PRF-28861 or MIL-PRF-15733/49 to MIL-PRF-15733/34 is permissible under the following provisions:

- a. The MIL-PRF-15733/34 parts use the same design and dielectric characteristics as the part from which qualification is extended.
- b. The MIL-PRF-28861 or MIL-PRF-15733/49 qualification data verifies that the physical and electrical characteristics of the MIL-PRF-15733/34 parts are satisfied.

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TABLE III. Extension of qualification.

Qualification to		Will qualify MIL-PRF-15733/34
Specification	PIN	
MIL-PRF-28861/2	M28861/02-003TB	-0023
MIL-PRF-28861/2	M28861/02-006TB	-0025
MIL-PRF-28861/2	M28861/02-009TB	-0026
MIL-PRF-28861/2	M28861/02-009TB	-0027
MIL-PRF-28861/2	M28861/02-024TB	-0014
MIL-PRF-28861/5	M28861/05-019TB	-0015
MIL-PRF-28861/5	M28861/05-021TB	-0019
MIL-PRF-15733/49	M15733/49-0003	-0036

PIN: M15733/34- (dash number from table 1).

Supersession data: See table IV.

TABLE IV. Supersession data.

Superseded military PIN	Superseding specification	Superseding military PIN
M15733/34-0008	MIL-PRF-15733/34	M15733/34-0007
M15733/34-0010	MIL-PRF-28861/5	M28861/05-020TB
M15733/34-0014	MIL-PRF-28861/2	M28861/02-024TB
M15733/34-0015	MIL-PRF-28861/5	M28861/05-019TB
M15733/34-0019	MIL-PRF-28861/5	M28861/05-021TB
M15733/34-0022	MIL-PRF-28861/2	M28861/02-003TB
M15733/34-0023	MIL-PRF-28861/2	M28861/02-003TB
M15733/34-0024	MIL-PRF-28861/2	M28861/02-006TB
M15733/34-0025	MIL-PRF-28861/2	M28861/02-006TB
M15733/34-0026	MIL-PRF-28861/2	M28861/02-009TB
M15733/34-0027	MIL-PRF-28861/2	M28861/02-009TB
M15733/34-0032	MIL-PRF-28861/5	M28861/05-018TB
M15733/34-0033	MIL-PRF-28861/5	M28861/05-018TB
M15733/34-0034	MIL-PRF-15733/39	M15733/39-0015

NOTES:

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

MIL-STD-202  
MIL-STD-704

Cataloging information: Dash numbers 0035, 0036, and 0037 shall be cataloged under FSC 5910 as feed-through ceramic capacitors. Dash numbers 0001 through 0034 shall be cataloged under FSC 5915 as radio frequency interference filters.

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 59GP - 0191)

Review activities:  
Army - AT, AV, MI  
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](http://www.dodssp.daps.mil).