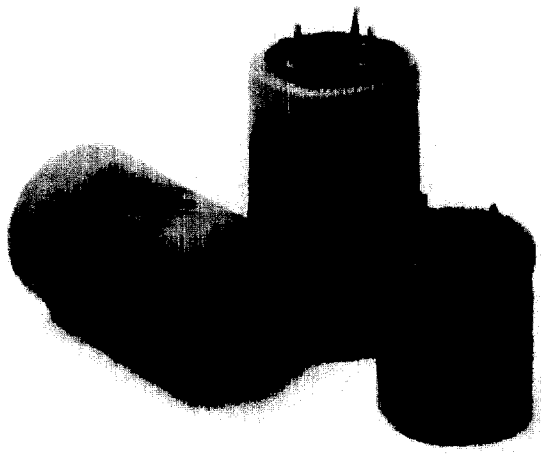


TYPE LPR



Snap-In Capacitors

FEATURES:

- All Welded Construction
- Very Low ESR
- Very High Ripple Current
- Optional Standoffs with Straight Pins

The LPR snap-in capacitor manufactured by Aerovox is designed for those demanding application circuits such as Switch-mode power supplies that require very high ripple current capability, very low ESR, and a small size. A variety of sizes and terminal configurations offer the designer a wide range of options to fit both physical and electrical requirements.

SMALL CAPS

PERFORMANCE CHARACTERISTICS:

- VOLTAGE: 6.3 to 250 VDC
- OPERATING TEMPERATURE: -40°C to +85°C
- CAPACITANCE TOLERANCE: ±20%
- QA STABILITY TEST: After application of DC rated voltage for 2,000 hours at +85°C, stabilize at +25°C:
 - Capacitance change ±15%.
 - DC leakage current meets initial limits.
 - ESR equal to or less than 1.5x specified limit.

• RIPPLE CURRENT

The ripple current limits for LPR capacitors are shown in the Standard Rating Table for 85°C and 120Hz operation. Ripple current ratings may be adjusted for operation at different frequencies and temperatures using the following multiplication factors:

Rated Voltage	Ripple Multipliers		
	60Hz	400-1,000Hz	Above 1,000Hz
6.3 to 49	0.85	1.10	1.15
50 to 199	0.83	1.15	1.20
200 & Up	0.80	1.30	1.40

Ambient Temperature	Multiplier
+85°C	1.0
+75°C	1.2
+65°C	1.4
+55°C	1.58
+45°C	1.7

• DC LEAKAGE CURRENT

PRE-CONDITIONING. Capacitors shall be pre-conditioned for DCL measurement by applying rated WVDC for 30 minutes minimum at least 24 hours and not more than 48 hours before testing.

MEASUREMENT. At 25°C sufficient DC voltage shall be applied from stable regulated power source, across a series combination which includes the capacitors being tested, a milliammeter and a current limiting resistor of a value which permits rated DC voltage to appear across the capacitor within one minute. After five minutes electrification at rated DC voltage the DCL shall not exceed the value determined from the equation:

$$DCL = .004 \sqrt{CV}$$

Where DCL = DC Leakage Current in milliamperes

V = Working Voltage DC

C = Rated Capacitance (uF)

In no case, however, shall the DC leakage current exceed 4.0 mA at +25°C.

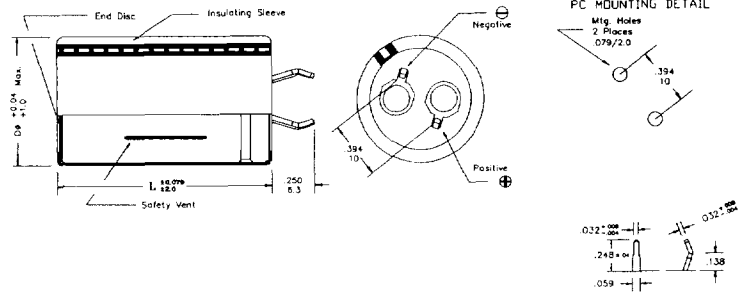
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740 Belleville Avenue, New Bedford, MA 02745-6194 TEL (508) 994-9661 FAX (508) 999-1000

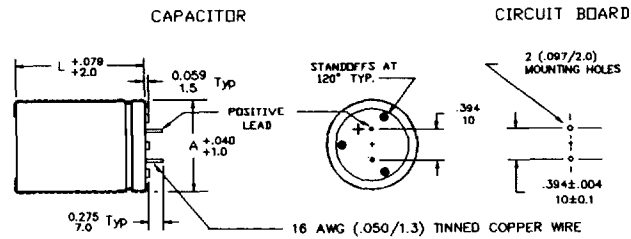
Case Code Chart

Case Size (mm) Dia. x Lg	Case Codes			
	Standard 2-Pin Snap Mount	2-Pin Leads With Stand-offs	3-Pin Leads With Stand-offs	4-Pin Crows Foot
22 x 25	A1			
22 x 30	A3			
22 x 35	A5	NOT AVAILABLE	NOT AVAILABLE	NOT AVAILABLE
22 x 40	A7			
22 x 45	A4			
22 x 50	A9			
25 x 25	C1	T1		
25 x 30	C3	T3		
25 x 35	C5	T5	NOT AVAILABLE	NOT AVAILABLE
25 x 40	C7	T7		
25 x 45	C4	T4		
25 x 50	C9	T9		
30 x 25	E1	V1	N1	
30 x 30	E3	V3	N3	
30 x 35	E5	V5	N5	
30 x 40	E7	V7	N7	NOT AVAILABLE
30 x 45	E4	V4	N4	
30 x 50	E9	V9	N9	
30 x 63	E6	V6	N6	
30 x 80	E8	V8	N8	
35 x 25	H1	X1	R1	K1
35 x 30	H3	X3	R3	K3
35 x 35	H5	X5	R5	K5
35 x 40	H7	X7	R7	K7
35 x 45	H4	X4	R4	K4
35 x 50	H9	X9	R9	K9
35 x 63	H6	X6	R6	K6
35 x 80	H8	X8	R8	K8
40 x 35	M5			J5
40 x 40	M7	NOT AVAILABLE	NOT AVAILABLE	J7
40 x 50	M9			J9

2 Terminal Snap Mount

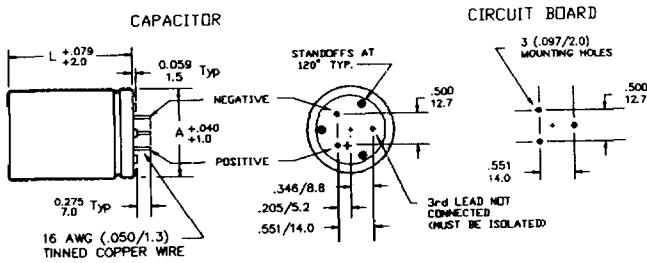


2-Pin Straight Lead with Stand-Offs

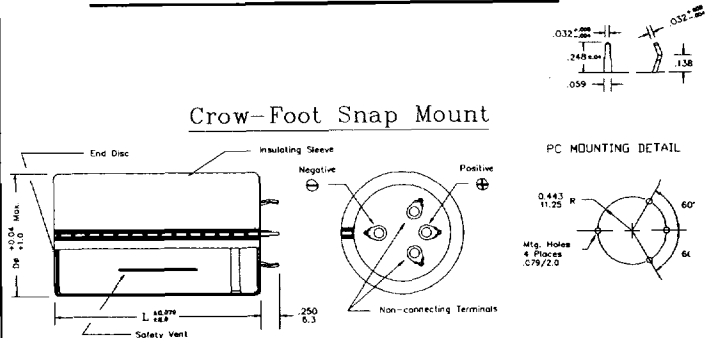


SMALL CANS

3-Pin Straight Lead with Stand-offs



Crow's-Foot Snap Mount



Aerovox Catalog

LPR

103

M

016

C3

P

3

Aerovox Type Number

This identifies the basic capacitor design.

Capacitance

Expressed in microfarads. The first two digits are significant figures, the third is the number of zeros.

Capacitance Tolerance

M = $\pm 20\%$

DC Voltage Rating

Expressed in volts. Zeros are used to precede the voltage rating where necessary to complete the three digit block. The letter "R" indicates a decimal point.

Case Code

(see preceding page)

Polarity

Insulating Sleeve

3 = PVC Insulating Sleeve

7 = PVC Sleeve with End Seal

S
M
A
L
L

C
A
P
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C
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T
O
R
S

Type LPR

Standard Ratings

Cap. µF ±20%	Case Code	Maximum ESR (OHMS) +25°C		Max Ripple Current (Amps R-M-S) +85°C		Part #
		120Hz	20KHz	120Hz	20KHz	

Cap. µF ±20%	Case Code	Maximum ESR (OHMS) +25°C		Max Ripple Current (Amps R-M-S) +85°C		Part #
		120Hz	20KHz	120Hz	20KHz	

6.3 WVDC; 8 VDC Surge

10,000	A1	0.103	0.096	2.26	2.33	LPR103M6R3A1P3
12,000	A3	0.083	0.077	2.72	2.81	LPR123M6R3A3P3
18,000	A5	0.060	0.056	3.41	3.52	LPR183M6R3A5P3
22,000	A7	0.050	0.047	3.95	4.07	LPR223M6R3A7P3
22,000	A4	0.048	0.045	4.26	4.40	LPR223M6R3A4P3
27,000	A9	0.041	0.038	4.83	4.98	LPR273M6R3A9P3
12,000	C1	0.093	0.088	2.55	2.63	LPR123M6R3C1P3
18,000	C3	0.066	0.063	3.26	3.35	LPR183M6R3C3P3
22,000	C5	0.054	0.051	3.85	3.96	LPR223M6R3C5P3
27,000	C7	0.045	0.043	4.45	4.58	LPR273M6R3C7P3
33,000	C4	0.039	0.037	5.06	5.19	LPR333M6R3C4P3
39,000	C9	0.035	0.033	5.63	5.78	LPR393M6R3C9P3
18,000	E1	0.055	0.051	3.71	3.84	LPR183M6R3E1P3
27,000	E3	0.039	0.036	4.77	4.92	LPR273M6R3E3P3
33,000	E5	0.032	0.030	5.61	5.79	LPR333M6R3E5P3
39,000	E7	0.027	0.025	6.41	6.62	LPR393M6R3E7P3
47,000	E4	0.023	0.022	7.28	7.51	LPR473M6R3E4P3
56,000	E9	0.020	0.019	8.16	8.40	LPR563M6R3E9P3
68,000	E6	0.017	0.016	9.83	10.12	LPR683M6R3E6P3
100,000	E8	0.013	0.013	12.34	12.65	LPR104M6R3E8P3
27,000	H1	0.045	0.042	4.54	4.66	LPR273M6R3H1P3
39,000	H3	0.033	0.031	5.70	5.85	LPR393M6R3H3P3
47,000	H5	0.027	0.025	6.69	6.87	LPR473M6R3H5P3
56,000	H7	0.023	0.022	7.65	7.86	LPR563M6R3H7P3
82,000	H9	0.017	0.016	9.63	9.86	LPR823M6R3H9P3
100,000	H6	0.014	0.014	11.65	11.92	LPR104M6R3H6P3
120,000	H8	0.013	0.012	13.86	14.17	LPR124M6R3H8P3
56,000	M5	0.025	0.024	7.42	7.59	LPR563M6R3M5P3
68,000	M7	0.022	0.021	8.50	8.70	LPR683M6R3M7P3
100,000	M9	0.017	0.016	10.59	10.80	LPR104M6R3M9P3

10 WVDC; 13 VDC Surge

56,000	E6	0.017	0.016	9.83	10.26	LPR563M010E6P3
82,000	E8	0.013	0.013	12.32	12.78	LPR823M010E8P3
22,000	H1	0.045	0.042	4.51	4.69	LPR223M010H1P3
27,000	H3	0.035	0.032	5.48	5.73	LPR273M010H3P3
39,000	H5	0.027	0.025	6.67	6.93	LPR393M010H5P3
47,000	H7	0.023	0.021	7.65	7.95	LPR473M010H7P3
56,000	H9	0.019	0.017	9.28	9.65	LPR563M010H9P3
82,000	H6	0.015	0.014	11.60	12.00	LPR823M010H6P3
100,000	H8	0.013	0.012	13.86	14.32	LPR104M010H8P3
47,000	M5	0.026	0.024	7.38	7.64	LPR473M010M5P3
56,000	M7	0.022	0.020	8.45	8.73	LPR563M010M7P3
82,000	M9	0.017	0.016	10.51	10.82	LPR823M010M9P3

16 WVDC; 20 VDC Surge

5,600	A1	0.112	0.097	2.16	2.32	LPR562M016A1P3
6,800	A3	0.088	0.075	2.63	2.84	LPR682M016A3P3
10,000	A5	0.065	0.057	3.27	3.50	LPR103M016A5P3
12,000	A7	0.055	0.048	3.77	4.04	LPR123M016A7P3
12,000	A4	0.052	0.045	4.10	4.40	LPR123M016A4P3
15,000	A9	0.044	0.038	4.66	4.99	LPR153M016A9P3
6,800	C1	0.103	0.091	2.43	2.59	LPR682M016C1P3
10,000	C3	0.075	0.066	3.08	3.26	LPR103M016C3P3
12,000	C5	0.061	0.054	3.64	3.87	LPR123M016C5P3
15,000	C7	0.051	0.045	4.22	4.48	LPR153M016C7P3
18,000	C4	0.044	0.039	4.78	5.06	LPR183M016C4P3
22,000	C9	0.038	0.035	5.35	5.63	LPR223M016C9P3
10,000	E1	0.059	0.051	3.57	3.85	LPR103M016E1P3
15,000	E3	0.042	0.036	4.58	4.91	LPR153M016E3P3
18,000	E5	0.034	0.030	5.37	5.77	LPR183M016E5P3
22,000	E7	0.029	0.025	6.21	6.66	LPR223M016E7P3
27,000	E4	0.024	0.021	7.08	7.57	LPR273M016E4P3
33,000	E9	0.021	0.019	7.96	8.48	LPR333M016E9P3
39,000	E6	0.018	0.016	9.60	10.24	LPR393M016E6P3
56,000	E8	0.014	0.013	11.98	12.66	LPR563M016E8P3
15,000	H1	0.051	0.045	4.27	4.52	LPR153M016H1P3
18,000	H3	0.039	0.034	5.21	5.55	LPR183M016H3P3
27,000	H5	0.030	0.027	6.34	6.69	LPR273M016H5P3
33,000	H7	0.025	0.022	7.30	7.70	LPR333M016H7P3
39,000	H9	0.020	0.018	8.93	9.45	LPR393M016H9P3
56,000	H6	0.016	0.014	11.12	11.69	LPR563M016H6P3
82,000	H8	0.013	0.012	13.65	14.22	LPR823M016H8P3
33,000	M5	0.029	0.027	6.94	7.26	LPR333M016M5P3
39,000	M7	0.025	0.022	7.96	8.33	LPR393M016M7P3
56,000	M9	0.019	0.018	9.89	10.30	LPR563M016M9P3

10 WVDC; 13 VDC Surge

8,200	A1	0.103	0.094	2.25	2.36	LPR822M010A1P3
10,000	A3	0.082	0.074	2.72	2.87	LPR103M010A3P3
12,000	A5	0.068	0.061	3.20	3.36	LPR123M010A5P3
15,000	A7	0.056	0.051	3.73	3.92	LPR153M010A7P3
18,000	A4	0.048	0.044	4.25	4.46	LPR183M010A4P3
22,000	A9	0.041	0.037	4.81	5.04	LPR223M010A9P3
10,000	C1	0.094	0.086	2.55	2.67	LPR103M010C1P3
15,000	C3	0.067	0.062	3.25	3.39	LPR153M010C3P3
18,000	C5	0.055	0.050	3.83	3.99	LPR183M010C5P3
22,000	C7	0.046	0.042	4.43	4.61	LPR223M010C7P3
27,000	C4	0.039	0.036	5.03	5.23	LPR273M010C4P3
27,000	C9	0.037	0.034	5.43	5.65	LPR273M010C9P3
15,000	E1	0.055	0.049	3.73	3.92	LPR153M010E1P3
22,000	E3	0.039	0.035	4.75	4.98	LPR223M010E3P3
27,000	E5	0.032	0.029	5.59	5.86	LPR273M010E5P3
33,000	E7	0.027	0.024	6.46	6.77	LPR333M010E7P3
39,000	E4	0.023	0.021	7.29	7.63	LPR393M010E4P3
47,000	E9	0.020	0.018	8.19	8.55	LPR473M010E9P3

25 WVDC; 30 VDC Surge

3,900	A1	0.121	0.098	2.08	2.31	LPR392M025A1P3
5,600	A3	0.087	0.071	2.65	2.93	LPR562M025A3P3
6,800	A5	0.071	0.058	3.13	3.47	LPR682M025A5P3
8,200	A7	0.060	0.049	3.62	4.00	LPR822M025A7P3

SMALL CANS

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Type LPR

Standard Ratings

SMALL CAPS

Cap. µF ±20%	Case Code	Maximum ESR (OHMS) +25°C		Max Ripple Current (Amps R-M-S) +85°C		Part #
		120Hz	20KHz	120Hz	20KHz	

25 WVDC; 30 VDC Surge

10,000	A4	0.051	0.042	4.13	4.56	LPR103M025A4P3
12,000	A9	0.044	0.037	4.64	5.10	LPR123M025A9P3
4,700	C1	0.111	0.092	2.34	2.58	LPR472M025C1P3
6,800	C3	0.080	0.067	2.97	3.25	LPR682M025C3P3
8,200	C5	0.065	0.054	3.51	3.85	LPR822M025C5P3
10,000	C7	0.055	0.046	4.06	4.44	LPR103M025C7P3
12,000	C4	0.047	0.040	4.60	5.02	LPR123M025C4P3
15,000	C9	0.041	0.035	5.18	5.61	LPR153M025C9P3
6,800	E1	0.066	0.052	3.40	3.81	LPR682M025E1P3
10,000	E3	0.046	0.037	4.34	4.84	LPR103M025E3P3
12,000	E5	0.038	0.031	5.09	5.68	LPR123M025E5P3
15,000	E7	0.032	0.026	5.93	6.59	LPR153M025E7P3
18,000	E4	0.027	0.022	6.74	7.46	LPR183M025E4P3
22,000	E9	0.023	0.019	7.60	8.38	LPR223M025E9P3
27,000	E6	0.019	0.016	9.25	10.18	LPR273M025E6P3
39,000	E8	0.015	0.013	11.61	12.61	LPR393M025E8P3
10,000	H1	0.055	0.046	4.11	4.50	LPR103M025H1P3
15,000	H3	0.039	0.033	5.19	5.64	LPR153M025H3P3
18,000	H5	0.032	0.027	6.11	6.66	LPR183M025H5P3
22,000	H7	0.027	0.023	7.05	7.66	LPR223M025H7P3
33,000	H9	0.020	0.017	8.90	9.57	LPR333M025H9P3
39,000	H6	0.017	0.014	10.82	11.66	LPR393M025H6P3
56,000	H8	0.014	0.012	13.33	14.19	LPR563M025H8P3
22,000	M5	0.031	0.027	6.76	7.27	LPR223M025M5P3
27,000	M7	0.026	0.022	7.78	8.33	LPR273M025M7P3
39,000	M9	0.020	0.018	9.69	10.31	LPR393M025M9P3

35 WVDC; 44 VDC Surge

2,700	A1	0.133	0.099	1.98	2.29	LPR272M035A1P3
3,900	A3	0.095	0.072	2.53	2.91	LPR392M035A3P3
4,700	A5	0.078	0.059	2.98	3.44	LPR472M035A5P3
5,600	A7	0.066	0.050	3.44	3.96	LPR562M035A7P3
6,800	A4	0.056	0.043	3.93	4.50	LPR682M035A4P3
8,200	A9	0.048	0.037	4.43	5.05	LPR822M035A9P3
3,900	C1	0.113	0.089	2.33	2.61	LPR392M035C1P3
4,700	C3	0.087	0.068	2.85	3.23	LPR472M035C3P3
6,800	C5	0.066	0.053	3.48	3.90	LPR682M035C5P3
8,200	C7	0.056	0.045	4.03	4.50	LPR822M035C7P3
10,000	C4	0.048	0.039	4.58	5.09	LPR103M035C4P3
10,000	C9	0.044	0.035	4.97	5.57	LPR103M035C9P3
5,600	E1	0.065	0.049	3.41	3.93	LPR562M035E1P3
6,800	E3	0.052	0.038	4.11	4.77	LPR682M035E3P3
10,000	E5	0.038	0.029	5.12	5.87	LPR103M035E5P3
12,000	E7	0.032	0.024	5.89	6.75	LPR123M035E7P3
12,000	E4	0.030	0.023	6.35	7.33	LPR123M035E4P3
15,000	E9	0.026	0.020	7.24	8.29	LPR153M035E9P3
22,000	E6	0.019	0.015	9.24	10.42	LPR223M035E6P3
27,000	E8	0.016	0.013	11.17	12.53	LPR273M035E8P3
6,800	H1	0.060	0.046	3.93	4.47	LPR682M035H1P3
10,000	H3	0.043	0.034	4.97	5.61	LPR103M035H3P3

Cap. µF ±20%	Case Code	Maximum ESR (OHMS) +25°C		Max Ripple Current (Amps R-M-S) +85°C		Part #
		120Hz	20KHz	120Hz	20KHz	

35 WVDC; 44 VDC Surge

12,000	H5	0.035	0.027	5.84	6.60	LPR123M035H5P3
15,000	H7	0.029	0.023	6.77	7.62	LPR153M035H7P3
22,000	H9	0.022	0.018	8.58	9.53	LPR223M035H9P3
27,000	H6	0.018	0.014	10.47	11.62	LPR273M035H6P3
39,000	H8	0.014	0.012	12.97	14.17	LPR393M035H8P3
18,000	M5	0.032	0.027	6.64	7.24	LPR183M035M5P3
22,000	M7	0.027	0.023	7.63	8.30	LPR223M035M7P3
27,000	M9	0.021	0.018	9.45	10.32	LPR273M035M9P3

50 WVDC; 63 VDC Surge

1,800	A1	0.146	0.099	1.89	2.30	LPR182M050A1P3
2,700	A3	0.102	0.070	2.44	2.94	LPR272M050A3P3
3,300	A5	0.083	0.057	2.89	3.49	LPR332M050A5P3
3,900	A7	0.070	0.049	3.33	4.01	LPR392M050A7P3
4,700	A4	0.060	0.042	3.80	4.55	LPR472M050A4P3
5,600	A9	0.052	0.037	4.28	5.09	LPR562M050A9P3
2,200	C1	0.131	0.092	2.16	2.57	LPR222M050C1P3
2,700	C3	0.102	0.070	2.63	3.17	LPR272M050C3P3
3,900	C5	0.076	0.054	3.25	3.85	LPR392M050C5P3
5,600	C7	0.059	0.044	3.89	4.51	LPR562M050C7P3
5,600	C4	0.055	0.040	4.26	5.01	LPR562M050C4P3
6,800	C9	0.048	0.035	4.80	5.59	LPR682M050C9P3
3,300	E1	0.077	0.052	3.13	3.84	LPR332M050E1P3
4,700	E3	0.056	0.037	3.97	4.83	LPR472M050E3P3
5,600	E5	0.046	0.031	4.64	5.66	LPR562M050E5P3
8,200	E7	0.034	0.024	5.68	6.80	LPR822M050E7P3
8,200	E4	0.033	0.022	6.12	7.40	LPR822M050E4P3
10,000	E9	0.028	0.019	6.93	8.31	LPR103M050E9P3
15,000	E6	0.021	0.015	8.93	10.49	LPR153M050E6P3
18,000	E8	0.018	0.013	10.75	12.56	LPR183M050E8P3
4,700	H1	0.064	0.046	3.80	4.49	LPR472M050H1P3
6,800	H3	0.046	0.033	4.80	5.62	LPR682M050H3P3
8,200	H5	0.037	0.027	5.64	6.63	LPR822M050H5P3
10,000	H7	0.031	0.023	6.51	7.63	LPR103M050H7P3
15,000	H9	0.023	0.018	8.30	9.55	LPR153M050H9P3
18,000	H6	0.019	0.014	10.10	11.64	LPR183M050H6P3
27,000	H8	0.015	0.012	12.64	14.20	LPR273M050H8P3
12,000	M5	0.034	0.027	6.43	7.23	LPR123M050M5P3
15,000	M7	0.028	0.023	7.41	8.28	LPR153M050M7P3
18,000	M9	0.022	0.018	9.15	10.31	LPR183M050M9P3

63 WVDC; 79 VDC Surge

1,200	A1	0.160	0.102	1.81	2.27	LPR122M063A1P3
1,800	A3	0.112	0.073	2.33	2.89	LPR182M063A3P3
2,200	A5	0.091	0.059	2.77	3.43	LPR222M063A5P3
2,700	A7	0.075	0.049	3.22	3.98	LPR272M063A7P3
3,300	A4	0.064	0.042	3.69	4.52	LPR332M063A4P3
3,300	A9	0.061	0.039	3.96	4.91	LPR332M063A9P3
1,500	C1	0.143	0.096	2.06	2.51	LPR152M063C1P3
2,200	C3	0.102	0.071	2.63	3.16	LPR222M063C3P3

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740 Belleville Avenue, New Bedford, MA 02745-6194 TEL (508) 994-9661 FAX (508) 999-1000

Type LPR

Standard Ratings

Cap. μF ±20%	Case Code	Maximum ESR (OHMS) +25°C 120Hz 20KHz	Max Ripple Current (Amps R-M-S) +85°C 120Hz 20KHz	Part #	
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Cap. μF ±20%	Case Code	Maximum ESR (OHMS) +25°C 120Hz 20KHz	Max Ripple Current (Amps R-M-S) +85°C 120Hz 20KHz	Part #	
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63 WVDC; 79 VDC Surge

2,700	C5	0.083	0.057	3.12	3.77	LPR272M063C5P3
3,300	C7	0.069	0.048	3.62	4.35	LPR332M063C7P3
3,900	C4	0.059	0.041	4.10	4.91	LPR392M063C4P3
4,700	C9	0.052	0.037	4.61	5.46	LPR472M063C9P3
2,200	E1	0.085	0.053	3.00	3.79	LPR222M063E1P3
3,300	E3	0.059	0.038	3.86	4.82	LPR332M063E3P3
3,900	E5	0.049	0.031	4.51	5.66	LPR392M063E5P3
4,700	E7	0.041	0.026	5.20	6.52	LPR472M063E7P3
5,600	E4	0.035	0.023	5.92	7.37	LPR562M063E4P3
6,800	E9	0.030	0.020	6.69	8.25	LPR682M063E9P3
10,000	E6	0.022	0.015	8.57	10.34	LPR103M063E6P3
12,000	E8	0.019	0.013	10.37	12.44	LPR123M063E8P3
3,300	H1	0.069	0.048	3.64	4.37	LPR332M063H1P3
4,700	H3	0.050	0.035	4.58	5.46	LPR472M063H3P3
5,600	H5	0.041	0.029	5.39	6.47	LPR562M063H5P3
6,800	H7	0.034	0.024	6.23	7.44	LPR682M063H7P3
10,000	H9	0.026	0.019	7.91	9.27	LPR103M063H9P3
12,000	H6	0.021	0.015	9.67	11.38	LPR123M063H6P3
18,000	H8	0.016	0.013	12.12	13.86	LPR183M063H8P3
8,200	M5	0.038	0.030	6.06	6.88	LPR822M063M5P3
10,000	M7	0.032	0.025	6.98	7.90	LPR103M063M7P3
12,000	M9	0.025	0.019	8.68	9.92	LPR123M063M9P3

80 WVDC; 100 VDC Surge

10,000	H8	0.019	0.014	11.16	13.14	LPR103M080H8P3
3,900	M5	0.046	0.032	5.53	6.61	LPR392M080M5P3
4,700	M7	0.038	0.027	6.36	7.60	LPR472M080M7P3
6,800	M9	0.029	0.021	8.06	9.48	LPR682M080M9P3

100 WVDC; 125 VDC Surge

470	A1	0.223	0.125	1.53	2.05	LPR471M100A1P3
560	A3	0.181	0.099	1.83	2.48	LPR561M100A3P3
820	A5	0.129	0.073	2.32	3.08	LPR821M100A5P3
1,000	A7	0.107	0.061	2.70	3.57	LPR102M100A7P3
1,200	A4	0.091	0.052	3.09	4.07	LPR122M100A4P3
1,200	A9	0.088	0.050	3.28	4.37	LPR122M100A9P3
560	C1	0.198	0.116	1.75	2.29	LPR561M100C1P3
820	C3	0.140	0.083	2.25	2.91	LPR821M100C3P3
1,000	C5	0.113	0.067	2.66	3.45	LPR102M100C5P3
1,200	C7	0.095	0.057	3.08	3.99	LPR122M100C7P3
1,500	C4	0.079	0.048	3.56	4.55	LPR152M100C4P3
1,800	C9	0.068	0.042	4.02	5.09	LPR182M100C9P3
820	E1	0.124	0.067	2.48	3.36	LPR821M100E1P3
1,200	E3	0.086	0.048	3.19	4.28	LPR122M100E3P3
1,500	E5	0.069	0.039	3.79	5.08	LPR152M100E5P3
1,800	E7	0.058	0.032	4.37	5.85	LPR182M100E7P3
2,200	E4	0.049	0.028	5.03	6.67	LPR222M100E4P3
2,700	E9	0.041	0.024	5.74	7.53	LPR272M100E9P3
3,300	E6	0.034	0.020	7.01	9.17	LPR332M100E6P3
4,700	E8	0.025	0.016	8.98	11.48	LPR472M100E8P3
1,200	H1	0.095	0.057	3.11	4.03	LPR122M100H1P3
1,800	H3	0.067	0.041	3.99	5.08	LPR182M100H3P3
2,200	H5	0.054	0.033	4.70	6.01	LPR222M100H5P3
2,700	H7	0.045	0.028	5.45	6.93	LPR272M100H7P3
3,300	H9	0.036	0.022	6.67	8.53	LPR332M100H9P3
4,700	H6	0.027	0.017	8.50	10.65	LPR472M100H6P3
6,800	H8	0.021	0.014	10.78	13.13	LPR682M100H8P3
2,700	M5	0.049	0.032	5.34	6.62	LPR272M100M5P3
3,300	M7	0.041	0.027	6.17	7.61	LPR332M100M7P3
4,700	M9	0.031	0.021	7.81	9.48	LPR472M100M9P3

80 WVDC; 100 VDC Surge

680	A1	0.205	0.125	1.60	2.04	LPR681M080A1P3
820	A3	0.165	0.099	1.92	2.48	LPR821M080A3P3
1,200	A5	0.118	0.073	2.42	3.08	LPR122M080A5P3
1,500	A7	0.096	0.060	2.85	3.60	LPR152M080A7P3
1,500	A4	0.093	0.057	3.05	3.91	LPR152M080A4P3
1,800	A9	0.079	0.049	3.47	4.40	LPR182M080A9P3
820	C1	0.181	0.116	1.83	2.29	LPR821M080C1P3
1,200	C3	0.128	0.083	2.35	2.91	LPR122M080C3P3
1,500	C5	0.103	0.067	2.80	3.47	LPR152M080C5P3
1,800	C7	0.086	0.056	3.23	4.00	LPR182M080C7P3
2,200	C4	0.073	0.048	3.70	4.55	LPR222M080C4P3
2,700	C9	0.062	0.042	4.20	5.10	LPR272M080C9P3
1,200	E1	0.112	0.067	2.60	3.36	LPR122M080E1P3
1,800	E3	0.077	0.047	3.37	4.31	LPR182M080E3P3
2,200	E5	0.063	0.038	3.97	5.08	LPR222M080E5P3
2,700	E7	0.052	0.032	4.62	5.89	LPR272M080E7P3
3,300	E4	0.044	0.027	5.31	6.72	LPR332M080E4P3
3,900	E9	0.038	0.024	5.97	7.51	LPR392M080E9P3
4,700	E6	0.031	0.020	7.25	9.11	LPR472M080E6P3
6,800	E8	0.024	0.016	9.32	11.45	LPR682M080E8P3
1,800	H1	0.086	0.056	3.26	4.04	LPR182M080H1P3
2,200	H3	0.068	0.043	3.95	4.95	LPR222M080H3P3
3,300	H5	0.049	0.033	4.93	6.03	LPR332M080H5P3
3,900	H7	0.042	0.028	5.65	6.92	LPR392M080H7P3
4,700	H9	0.034	0.022	6.89	8.49	LPR472M080H9P3
6,800	H6	0.025	0.017	8.80	10.64	LPR682M080H6P3

160 WVDC; 200 VDC Surge

220	A1	0.463	0.220	1.06	1.54	LPR221M160A1P3
330	A3	0.313	0.151	1.39	2.00	LPR331M160A3P3
390	A5	0.263	0.126	1.62	2.34	LPR391M160A5P3
470	A7	0.219	0.106	1.89	2.72	LPR471M160A7P3
560	A4	0.185	0.090	2.16	3.10	LPR561M160A4P3
680	A9	0.155	0.076	2.48	3.53	LPR681M160A9P3
270	C1	0.389	0.191	1.25	1.78	LPR271M160C1P3
390	C3	0.273	0.136	1.61	2.28	LPR391M160C3P3
560	C5	0.196	0.101	2.02	2.82	LPR561M160C5P3
680	C7	0.163	0.084	2.35	3.27	LPR681M160C7P3
680	C4	0.158	0.079	2.52	3.55	LPR681M160C4P3
820	C9	0.133	0.068	2.87	4.02	LPR821M160C9P3

SMALL CANS

Type LPR

Standard Ratings

Cap. µF ±20%	Case Code	Maximum ESR (OHMS) +25°C		Max Ripple Current (Amps R-M-S) +85°C		Part #
		120Hz 20KHz		120Hz 20KHz		

Cap. µF ±20%	Case Code	Maximum ESR (OHMS) +25°C		Max Ripple Current (Amps R-M-S) +85°C		Part #
		120Hz 20KHz		120Hz 20KHz		

160 WVDC; 200 VDC Surge

200 WVDC; 250 VDC Surge

470	E1	0.219	0.105	1.86	2.69	LPR471M160E1P3
560	E3	0.181	0.086	2.20	3.20	LPR561M160E3P3
820	E5	0.126	0.061	2.80	4.03	LPR821M160E5P3
1,000	E7	0.104	0.051	3.26	4.68	LPR102M160E7P3
1,000	E4	0.103	0.049	3.46	5.00	LPR102M160E4P3
1,200	E9	0.086	0.042	3.94	5.67	LPR122M160E9P3
1,800	E6	0.060	0.030	5.26	7.42	LPR182M160E6P3
2,200	E8	0.049	0.025	6.44	9.03	LPR222M160E8P3
560	H1	0.189	0.094	2.21	3.13	LPR561M160H1P3
820	H3	0.131	0.066	2.84	3.99	LPR821M160H3P3
1,000	H5	0.107	0.054	3.33	4.70	LPR102M160H5P3
1,200	H7	0.090	0.045	3.85	5.42	LPR122M160H7P3
1,800	H9	0.062	0.033	5.07	7.01	LPR182M160H9P3
2,200	H6	0.051	0.027	6.20	8.57	LPR222M160H6P3
3,300	H8	0.036	0.020	8.16	10.95	LPR332M160H8P3
1,500	M5	0.081	0.045	4.17	5.57	LPR152M160M5P3
1,800	M7	0.068	0.038	4.80	6.41	LPR182M160M7P3
2,200	M9	0.054	0.030	5.87	7.90	LPR222M160M9P3

120	A1	0.646	0.307	0.90	1.30	LPR121M200A1P3
180	A1	0.492	0.212	1.03	1.57	LPR181M200A1P3
180	A3	0.435	0.209	1.18	1.71	LPR181M200A3P3
220	A3	0.399	0.169	1.24	1.90	LPR221M200A3P3
220	A5	0.355	0.171	1.40	2.01	LPR221M200A5P3
330	A5	0.272	0.119	1.60	2.42	LPR331M200A5P3
270	A7	0.291	0.140	1.64	2.36	LPR271M200A7P3
390	A7	0.230	0.101	1.84	2.78	LPR391M200A7P3
330	A4	0.240	0.117	1.90	2.72	LPR331M200A4P3
470	A4	0.193	0.085	2.12	3.19	LPR471M200A4P3
390	A9	0.204	0.100	2.16	3.08	LPR391M200A9P3
470	A9	0.190	0.083	2.24	3.39	LPR471M200A9P3
180	C1	0.451	0.226	1.16	1.64	LPR181M200C1P3
220	C1	0.415	0.186	1.21	1.81	LPR221M200C1P3
220	C3	0.364	0.179	1.39	1.99	LPR221M200C3P3
330	C3	0.282	0.129	1.58	2.34	LPR331M200C3P3
330	C5	0.250	0.127	1.79	2.52	LPR331M200C5P3
390	C5	0.236	0.107	1.84	2.74	LPR391M200C5P3
390	C7	0.212	0.107	2.06	2.90	LPR391M200C7P3
470	C7	0.197	0.090	2.14	3.17	LPR471M200C7P3
470	C4	0.177	0.091	2.37	3.31	LPR471M200C4P3
560	C4	0.167	0.077	2.45	3.61	LPR561M200C4P3
560	C9	0.151	0.078	2.69	3.75	LPR561M200C9P3
680	C9	0.140	0.066	2.80	4.09	LPR681M200C9P3
270	E1	0.290	0.140	1.62	2.33	LPR271M200E1P3
330	E1	0.266	0.113	1.69	2.59	LPR331M200E1P3
390	E3	0.202	0.098	2.08	2.99	LPR391M200E3P3
470	E3	0.188	0.081	2.16	3.29	LPR471M200E3P3
470	E5	0.168	0.081	2.43	3.50	LPR471M200E5P3
560	E5	0.157	0.067	2.51	3.84	LPR561M200E5P3
560	E7	0.141	0.068	2.81	4.04	LPR561M200E7P3
680	E7	0.130	0.056	2.92	4.46	LPR681M200E7P3
680	E4	0.117	0.057	3.24	4.64	LPR681M200E4P3
820	E4	0.109	0.047	3.36	5.10	LPR821M200E4P3
820	E9	0.098	0.049	3.70	5.24	LPR821M200E9P3
1,000	E9	0.090	0.040	3.86	5.81	LPR102M200E9P3
1,200	E6	0.075	0.033	4.68	7.04	LPR122M200E6P3
1,800	E8	0.052	0.024	6.25	9.18	LPR182M200E8P3
390	H1	0.212	0.108	2.08	2.92	LPR391M200H1P3
470	H1	0.197	0.090	2.16	3.20	LPR471M200H1P3
560	H3	0.149	0.077	2.66	3.70	LPR561M200H3P3
680	H3	0.138	0.064	2.77	4.06	LPR681M200H3P3
680	H5	0.122	0.063	3.13	4.35	LPR681M200H5P3
820	H5	0.114	0.052	3.24	4.77	LPR821M200H5P3
820	H7	0.102	0.052	3.61	5.06	LPR821M200H7P3
1,000	H7	0.094	0.044	3.76	5.52	LPR102M200H7P3
1,000	H4	0.085	0.044	4.15	5.77	LPR102M200H4P3
1,200	H9	0.078	0.035	4.55	6.72	LPR122M200H9P3
1,800	H6	0.054	0.026	6.02	8.68	LPR182M200H6P3
2,200	H8	0.045	0.022	7.36	10.55	LPR222M200H8P3

180 WVDC; 225 VDC Surge

180	A1	0.514	0.227	1.01	1.52	LPR181M180A1P3
270	A3	0.347	0.156	1.32	1.97	LPR271M180A3P3
330	A5	0.284	0.127	1.56	2.33	LPR331M180A5P3
390	A7	0.240	0.108	1.80	2.69	LPR391M180A7P3
470	A4	0.201	0.091	2.08	3.08	LPR471M180A4P3
560	A9	0.170	0.078	2.36	3.49	LPR561M180A9P3
270	C1	0.366	0.175	1.29	1.87	LPR271M180C1P3
330	C3	0.293	0.137	1.55	2.27	LPR331M180C3P3
470	C5	0.212	0.102	1.95	2.81	LPR471M180C5P3
560	C7	0.178	0.086	2.25	3.24	LPR561M180C7P3
680	C4	0.148	0.073	2.59	3.71	LPR681M180C4P3
680	C9	0.145	0.069	2.75	3.98	LPR681M180C9P3
390	E1	0.240	0.107	1.78	2.66	LPR391M180E1P3
470	E3	0.197	0.087	2.11	3.18	LPR471M180E3P3
680	E5	0.138	0.063	2.68	3.99	LPR681M180E5P3
820	E7	0.115	0.052	3.10	4.61	LPR821M180E7P3
1,000	E4	0.095	0.044	3.59	5.29	LPR102M180E4P3
1,000	E9	0.094	0.043	3.78	5.62	LPR102M180E9P3
1,500	E6	0.065	0.030	5.04	7.36	LPR152M180E6P3
1,800	E8	0.054	0.026	6.13	8.90	LPR182M180E8P3
560	H1	0.178	0.086	2.27	3.27	LPR561M180H1P3
680	H3	0.143	0.067	2.72	3.96	LPR681M180H3P3
820	H5	0.118	0.055	3.18	4.64	LPR821M180H5P3
1,200	H7	0.085	0.042	3.96	5.65	LPR122M180H7P3
1,500	H9	0.067	0.033	4.88	6.97	LPR152M180H9P3
1,800	H6	0.056	0.027	5.91	8.46	LPR182M180H6P3
2,700	H8	0.040	0.021	7.81	10.84	LPR272M180H8P3
1,200	M5	0.089	0.046	3.97	5.51	LPR122M180M5P3
1,500	M7	0.073	0.038	4.63	6.39	LPR152M180M7P3
1,800	M9	0.059	0.030	5.62	7.84	LPR182M180M9P3

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740 Belleville Avenue, New Bedford, MA 02745-6194 TEL (508) 994-9661 FAX (508) 999-1000

Type LPR

Standard Ratings

Cap. μF ±20%	Case Code	Maximum ESR (OHMS) +25°C		Max Ripple Current (Amps R-M-S) +85°C		Part #
		120Hz	20KHz	120Hz	20KHz	

Cap. μF ±20%	Case Code	Maximum ESR (OHMS) +25°C		Max Ripple Current (Amps R-M-S) +85°C		Part #
		120Hz	20KHz	120Hz	20KHz	

250 WVDC; 300 VDC Surge

820	M5	0.106	0.057	3.64	4.96	LPR821M200M5P3
1,000	M5	0.098	0.048	3.78	5.42	LPR102M200M5P3
1,000	M7	0.088	0.047	4.21	5.76	LPR102M200M7P3
1,200	M7	0.082	0.040	4.36	6.24	LPR122M200M7P3
1,500	M9	0.061	0.034	5.54	7.42	LPR152M200M9P3
1,800	M9	0.057	0.029	5.71	7.97	LPR182M200M9P3

250 WVDC; 300 VDC Surge

270	E1	0.285	0.107	1.63	2.66	LPR271M250E1P3
220	E3	0.258	0.108	1.84	2.85	LPR221M250E3P3
330	E3	0.231	0.086	1.95	3.19	LPR331M250E3P3
270	E5	0.210	0.088	2.17	3.36	LPR271M250E5P3
470	E5	0.165	0.063	2.46	3.98	LPR471M250E5P3
390	E7	0.148	0.064	2.74	4.17	LPR391M250E7P3
560	E7	0.138	0.053	2.83	4.59	LPR561M250E7P3
390	E4	0.147	0.062	2.89	4.45	LPR391M250E4P3
680	E4	0.115	0.044	3.27	5.26	LPR681M250E4P3
470	E9	0.123	0.052	3.31	5.08	LPR471M250E9P3
680	E9	0.114	0.043	3.44	5.58	LPR681M250E9P3
1,000	E6	0.079	0.031	4.56	7.27	LPR102M250E6P3
1,200	E8	0.066	0.027	5.55	8.78	LPR122M250E8P3
220	H1	0.266	0.116	1.86	2.82	LPR221M250H1P3
330	H1	0.239	0.094	1.96	3.13	LPR331M250H1P3
330	H3	0.180	0.080	2.42	3.63	LPR331M250H3P3
470	H3	0.169	0.068	2.50	3.95	LPR471M250H3P3
390	H5	0.151	0.067	2.81	4.22	LPR391M250H5P3
680	H5	0.121	0.050	3.15	4.88	LPR681M250H5P3
470	H7	0.126	0.056	3.25	4.87	LPR471M250H7P3
820	H7	0.100	0.042	3.64	5.63	LPR821M250H7P3
560	H4	0.106	0.048	3.72	5.53	LPR561M250H4P3
680	H9	0.089	0.040	4.24	6.33	LPR681M250H9P3
1,000	H9	0.082	0.034	4.43	6.90	LPR102M250H9P3
1,500	H6	0.057	0.025	5.87	8.87	LPR152M250H6P3
1,800	H8	0.048	0.021	7.13	10.75	LPR182M250H8P3
560	M5	0.113	0.055	3.52	5.05	LPR561M250M5P3
820	M5	0.105	0.046	3.66	5.50	LPR821M250M5P3
680	M7	0.094	0.046	4.07	5.82	LPR681M250M7P3
1,000	M7	0.087	0.039	4.24	6.35	LPR102M250M7P3
1,000	M9	0.066	0.033	5.32	7.53	LPR102M250M9P3
1,200	M9	0.071	0.031	5.14	7.77	LPR122M250M9P3

250 WVDC; 300 VDC Surge

82	A1	0.691	0.289	0.87	1.34	LPR820M250A1P3
120	A1	0.633	0.234	0.91	1.49	LPR121M250A1P3
120	A3	0.476	0.201	1.13	1.74	LPR121M250A3P3
180	A3	0.427	0.160	1.19	1.95	LPR181M250A3P3
150	A5	0.381	0.161	1.35	2.08	LPR151M250A5P3
220	A5	0.349	0.131	1.41	2.30	LPR221M250A5P3
180	A7	0.318	0.135	1.57	2.40	LPR181M250A7P3
270	A7	0.285	0.108	1.65	2.69	LPR271M250A7P3
220	A4	0.262	0.112	1.82	2.78	LPR221M250A4P3
330	A4	0.235	0.090	1.92	3.10	LPR331M250A4P3
220	A9	0.260	0.110	1.91	2.94	LPR221M250A9P3
390	A9	0.201	0.078	2.18	3.50	LPR391M250A9P3
100	C1	0.578	0.248	1.03	1.57	LPR101M250C1P3
180	C1	0.444	0.178	1.17	1.85	LPR181M250C1P3
150	C3	0.390	0.170	1.35	2.04	LPR151M250C3P3
220	C3	0.358	0.140	1.40	2.25	LPR221M250C3P3
180	C5	0.324	0.141	1.57	2.39	LPR181M250C5P3
330	C5	0.246	0.101	1.81	2.82	LPR331M250C5P3
220	C7	0.266	0.116	1.84	2.79	LPR221M250C7P3
390	C7	0.208	0.085	2.08	3.25	LPR391M250C7P3
270	C4	0.219	0.097	2.13	3.21	LPR271M250C4P3
470	C4	0.175	0.073	2.39	3.71	LPR471M250C4P3
330	C9	0.182	0.082	2.45	3.66	LPR331M250C9P3
470	C9	0.171	0.069	2.53	3.98	LPR471M250C9P3
180	E1	0.318	0.134	1.55	2.38	LPR181M250E1P3

SMALL CANS