

TYPE LPH

Snap-In Capacitors

FEATURES:

- High Ripple Current
- All Welded Construction
- Low ESR • High Temperature - 105°C
- Optional Standoffs with Straight Pins

The LPH snap-in capacitor manufactured by Aerovox is designed for applications requiring long life in high temperature environments. With its low equivalent series resistance and high ripple current capability, type LPH capacitors are designed for use as input and output filter capacitors and make an exceptional choice for switch-mode power supplies.

SMALL CAPS

PERFORMANCE CHARACTERISTICS:

- VOLTAGE: 6.3 to 250 VDC
- OPERATING TEMPERATURE: -40°C to +105°C
- CAPACITANCE TOLERANCE: ±20%
- QA STABILITY TEST: After application of DC rated voltage for 2,000 hours at +85°C, or 1,000 hours at 105°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 LPH 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
+105°C	0.5
+95°C	0.7
+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.

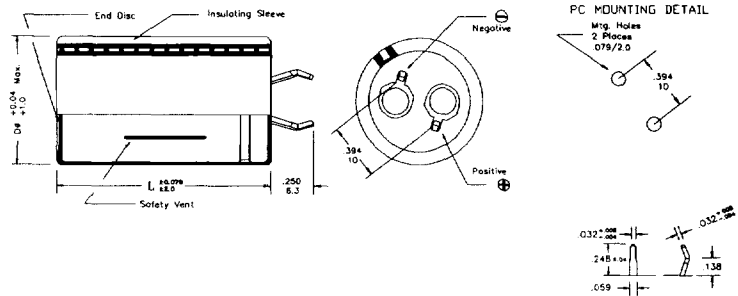
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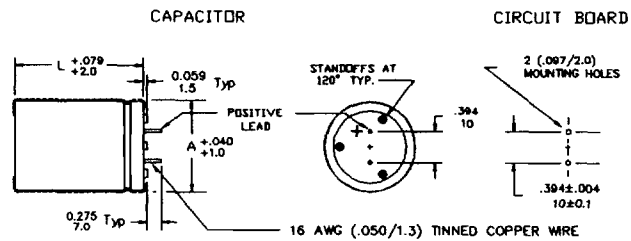
Case Code Chart

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	AVAILABLE	AVAILABLE
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	AVAILABLE
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	NOT AVAILABLE	NOT AVAILABLE	J5
40 x 40	M7			J7
40 x 50	M9			J9

2 Terminal Snap Mount

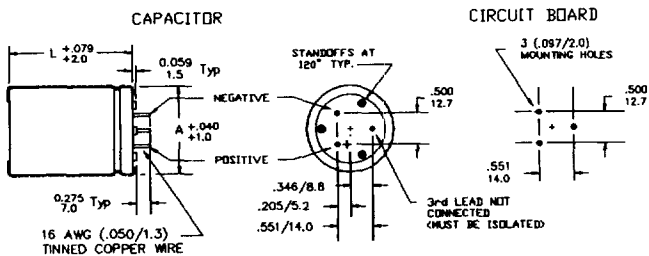


2-Pin Straight Lead with Stand-Offs

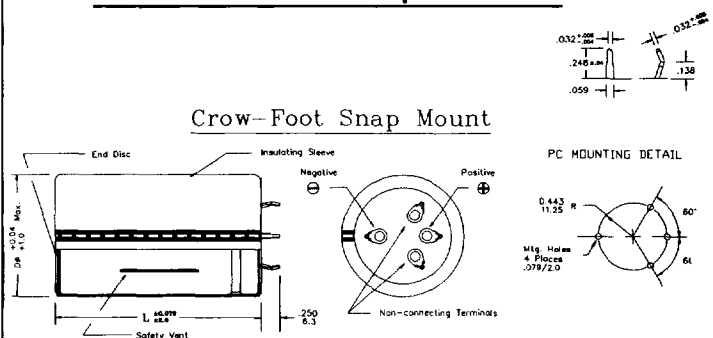


SMALL CANS

3-Pin Straight Lead with Stand-offs



Crow's-Foot Snap Mount



Aerovox Catalog

LPH

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
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L

C
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Type LPH

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	2.34	LPH103M6R3A1P3
12,000	A3	0.083	0.077	2.72	2.80	LPH123M6R3A3P3
18,000	A5	0.060	0.056	3.42	3.52	LPH183M6R3A5P3
22,000	A7	0.050	0.047	3.96	4.08	LPH223M6R3A7P3
22,000	A4	0.048	0.045	4.26	4.40	LPH223M6R3A4P3
27,000	A9	0.041	0.038	4.84	4.98	LPH273M6R3A9P3
12,000	C1	0.093	0.088	2.56	2.64	LPH123M6R3C1P3
18,000	C3	0.066	0.063	3.26	3.36	LPH183M6R3C3P3
22,000	C5	0.054	0.051	3.86	3.96	LPH223M6R3C5P3
27,000	C7	0.045	0.043	4.46	4.58	LPH273M6R3C7P3
33,000	C4	0.039	0.037	5.06	5.20	LPH333M6R3C4P3
39,000	C9	0.035	0.033	5.64	5.78	LPH393M6R3C9P3
18,000	E1	0.055	0.051	3.72	3.84	LPH183M6R3E1P3
27,000	E3	0.039	0.036	4.76	4.92	LPH273M6R3E3P3
33,000	E5	0.032	0.030	5.60	5.78	LPH333M6R3E5P3
39,000	E7	0.027	0.025	6.42	6.62	LPH393M6R3E7P3
47,000	E4	0.023	0.022	7.28	7.50	LPH473M6R3E4P3
56,000	E9	0.020	0.019	8.16	8.40	LPH563M6R3E9P3
68,000	E6	0.017	0.016	9.84	10.12	LPH683M6R3E6P3
100,000	E8	0.013	0.013	12.34	12.66	LPH104M6R3E8P3
27,000	H1	0.045	0.042	4.54	4.66	LPH273M6R3H1P3
39,000	H3	0.033	0.031	5.70	5.84	LPH393M6R3H3P3
47,000	H5	0.027	0.025	6.68	6.86	LPH473M6R3H5P3
56,000	H7	0.023	0.022	7.66	7.86	LPH563M6R3H7P3
82,000	H9	0.017	0.016	9.62	9.86	LPH823M6R3H9P3
100,000	H6	0.014	0.014	11.64	11.92	LPH104M6R3H6P3
120,000	H8	0.013	0.012	13.86	14.18	LPH124M6R3H8P3
56,000	M5	0.025	0.024	7.42	7.60	LPH563M6R3M5P3
68,000	M7	0.022	0.021	8.50	8.70	LPH683M6R3M7P3
100,000	M9	0.017	0.016	10.58	10.80	LPH104M6R3M9P3

10 WVDC; 13 VDC Surge

56,000	E6	0.017	0.016	9.82	10.26	LPH563M010E6P3
82,000	E8	0.013	0.013	12.32	12.78	LPH823M010E8P3
22,000	H1	0.045	0.042	4.50	4.70	LPH223M010H1P3
27,000	H3	0.035	0.032	5.48	5.72	LPH273M010H3P3
39,000	H5	0.027	0.025	6.66	6.94	LPH393M010H5P3
47,000	H7	0.023	0.021	7.64	7.94	LPH473M010H7P3
56,000	H9	0.019	0.017	9.28	9.66	LPH563M010H9P3
82,000	H6	0.015	0.014	11.60	12.00	LPH823M010H6P3
100,000	H8	0.013	0.012	13.86	14.32	LPH104M010H8P3
47,000	M5	0.026	0.024	7.38	7.64	LPH473M010M5P3
56,000	M7	0.022	0.020	8.44	8.74	LPH563M010M7P3
82,000	M9	0.017	0.016	10.52	10.82	LPH823M010M9P3

16 WVDC; 20 VDC Surge

5,600	A1	0.112	0.097	2.16	2.32	LPH562M016A1P3
6,800	A3	0.088	0.075	2.64	2.84	LPH682M016A3P3
10,000	A5	0.065	0.057	3.26	3.50	LPH103M016A5P3
12,000	A7	0.055	0.048	3.78	4.04	LPH123M016A7P3
12,000	A4	0.052	0.045	4.10	4.40	LPH123M016A4P3
15,000	A9	0.044	0.038	4.66	4.98	LPH153M016A9P3
6,800	C1	0.103	0.091	2.42	2.58	LPH682M016C1P3
10,000	C3	0.075	0.066	3.08	3.26	LPH103M016C3P3
12,000	C5	0.061	0.054	3.64	3.86	LPH123M016C5P3
15,000	C7	0.051	0.045	4.22	4.48	LPH153M016C7P3
18,000	C4	0.044	0.039	4.78	5.06	LPH183M016C4P3
22,000	C9	0.038	0.035	5.34	5.64	LPH223M016C9P3
10,000	E1	0.059	0.051	3.58	3.86	LPH103M016E1P3
15,000	E3	0.042	0.036	4.58	4.92	LPH153M016E3P3
18,000	E5	0.034	0.030	5.36	5.76	LPH183M016E5P3
22,000	E7	0.029	0.025	6.20	6.66	LPH223M016E7P3
27,000	E4	0.024	0.021	7.08	7.58	LPH273M016E4P3
33,000	E9	0.021	0.019	7.96	8.48	LPH333M016E9P3
39,000	E6	0.018	0.016	9.60	10.24	LPH393M016E6P3
56,000	E8	0.014	0.013	11.98	12.66	LPH563M016E8P3
15,000	H1	0.051	0.045	4.26	4.52	LPH153M016H1P3
18,000	H3	0.039	0.034	5.22	5.56	LPH183M016H3P3
27,000	H5	0.030	0.027	6.34	6.70	LPH273M016H5P3
33,000	H7	0.025	0.022	7.30	7.70	LPH333M016H7P3
39,000	H9	0.020	0.018	8.94	9.44	LPH393M016H9P3
56,000	H6	0.016	0.014	11.12	11.68	LPH563M016H6P3
82,000	H8	0.013	0.012	13.66	14.22	LPH823M016H8P3
33,000	M5	0.029	0.027	6.94	7.26	LPH333M016M5P3
39,000	M7	0.025	0.022	7.96	8.34	LPH393M016M7P3
56,000	M9	0.019	0.018	9.90	10.30	LPH563M016M9P3

10 WVDC; 13 VDC Surge

8,200	A1	0.103	0.094	2.24	2.36	LPH822M010A1P3
10,000	A3	0.082	0.074	2.72	2.86	LPH103M010A3P3
12,000	A5	0.068	0.061	3.20	3.36	LPH123M010A5P3
15,000	A7	0.056	0.051	3.74	3.92	LPH153M010A7P3
18,000	A4	0.048	0.044	4.26	4.46	LPH183M010A4P3
22,000	A9	0.041	0.037	4.82	5.04	LPH223M010A9P3
10,000	C1	0.094	0.086	2.56	2.66	LPH103M010C1P3
15,000	C3	0.067	0.062	3.26	3.38	LPH153M010C3P3
18,000	C5	0.055	0.050	3.84	4.00	LPH183M010C5P3
22,000	C7	0.046	0.042	4.42	4.62	LPH223M010C7P3
27,000	C4	0.039	0.036	5.04	5.22	LPH273M010C4P3
27,000	C9	0.037	0.034	5.42	5.66	LPH273M010C9P3
15,000	E1	0.055	0.049	3.72	3.92	LPH153M010E1P3
22,000	E3	0.039	0.035	4.74	4.98	LPH223M010E3P3
27,000	E5	0.032	0.029	5.58	5.86	LPH273M010E5P3
33,000	E7	0.027	0.024	6.46	6.76	LPH333M010E7P3
39,000	E4	0.023	0.021	7.30	7.64	LPH393M010E4P3
47,000	E9	0.020	0.018	8.18	8.56	LPH473M010E9P3

25 WVDC; 30 VDC Surge

3,900	A1	0.121	0.098	2.08	2.32	LPH392M025A1P3
5,600	A3	0.087	0.071	2.64	2.94	LPH562M025A3P3
6,800	A5	0.071	0.058	3.12	3.46	LPH682M025A5P3
8,200	A7	0.060	0.049	3.62	4.00	LPH822M025A7P3

SMALL CANS

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Type LPH

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	

25 WVDC; 30 VDC Surge

35 WVDC; 44 VDC Surge

10,000	A4	0.051	0.042	4.14	4.56	LPH103M025A4P3
12,000	A9	0.044	0.037	4.64	5.10	LPH123M025A9P3
4,700	C1	0.111	0.092	2.34	2.58	LPH472M025C1P3
6,800	C3	0.080	0.067	2.96	3.24	LPH682M025C3P3
8,200	C5	0.065	0.054	3.50	3.84	LPH822M025C5P3
10,000	C7	0.055	0.046	4.06	4.44	LPH103M025C7P3
12,000	C4	0.047	0.040	4.60	5.02	LPH123M025C4P3
15,000	C9	0.041	0.035	5.18	5.62	LPH153M025C9P3
6,800	E1	0.066	0.052	3.40	3.80	LPH682M025E1P3
10,000	E3	0.046	0.037	4.34	4.84	LPH103M025E3P3
12,000	E5	0.038	0.031	5.10	5.68	LPH123M025E5P3
15,000	E7	0.032	0.026	5.94	6.60	LPH153M025E7P3
18,000	E4	0.027	0.022	6.74	7.46	LPH183M025E4P3
22,000	E9	0.023	0.019	7.60	8.38	LPH223M025E9P3
27,000	E6	0.019	0.016	9.26	10.18	LPH273M025E6P3
39,000	E8	0.015	0.013	11.60	12.62	LPH393M025E8P3
10,000	H1	0.055	0.046	4.10	4.50	LPH103M025H1P3
15,000	H3	0.039	0.033	5.20	5.64	LPH153M025H3P3
18,000	H5	0.032	0.027	6.12	6.66	LPH183M025H5P3
22,000	H7	0.027	0.023	7.04	7.66	LPH223M025H7P3
33,000	H9	0.020	0.017	8.90	9.58	LPH333M025H9P3
39,000	H6	0.017	0.014	10.82	11.66	LPH393M025H6P3
56,000	H8	0.014	0.012	13.32	14.20	LPH563M025H8P3
22,000	M5	0.031	0.027	6.76	7.26	LPH223M025M5P3
27,000	M7	0.026	0.022	7.78	8.34	LPH273M025M7P3
39,000	M9	0.020	0.018	9.70	10.30	LPH393M025M9P3

12,000	H5	0.035	0.027	5.84	6.60	LPH123M035H5P3
15,000	H7	0.029	0.023	6.78	7.62	LPH153M035H7P3
22,000	H9	0.022	0.018	8.58	9.54	LPH223M035H9P3
27,000	H6	0.018	0.014	10.46	11.62	LPH273M035H6P3
39,000	H8	0.014	0.012	12.96	14.16	LPH393M035H8P3
18,000	M5	0.032	0.027	6.64	7.24	LPH183M035M5P3
22,000	M7	0.027	0.023	7.64	8.30	LPH223M035M7P3
27,000	M9	0.021	0.018	9.44	10.32	LPH273M035M9P3

50 WVDC; 63 VDC Surge

1,800	A1	0.146	0.099	1.90	2.30	LPH182M050A1P3
2,700	A3	0.102	0.070	2.44	2.94	LPH272M050A3P3
3,300	A5	0.083	0.057	2.90	3.48	LPH332M050A5P3
3,900	A7	0.070	0.049	3.32	4.00	LPH392M050A7P3
4,700	A4	0.060	0.042	3.80	4.56	LPH472M050A4P3
5,600	A9	0.052	0.037	4.28	5.08	LPH562M050A9P3
2,200	C1	0.131	0.092	2.16	2.58	LPH222M050C1P3
2,700	C3	0.102	0.070	2.64	3.16	LPH272M050C3P3
3,900	C5	0.076	0.054	3.26	3.84	LPH392M050C5P3
5,600	C7	0.059	0.044	3.90	4.50	LPH562M050C7P3
5,600	C4	0.055	0.040	4.26	5.02	LPH562M050C4P3
6,800	C9	0.048	0.035	4.80	5.60	LPH682M050C9P3
3,300	E1	0.077	0.052	3.14	3.84	LPH332M050E1P3
4,700	E3	0.056	0.037	3.98	4.84	LPH472M050E3P3
5,600	E5	0.046	0.031	4.64	5.66	LPH562M050E5P3
8,200	E7	0.034	0.024	5.68	6.80	LPH822M050E7P3
8,200	E4	0.033	0.022	6.12	7.40	LPH822M050E4P3
10,000	E9	0.028	0.019	6.94	8.32	LPH103M050E9P3
15,000	E6	0.021	0.015	8.94	10.48	LPH153M050E6P3
18,000	E8	0.018	0.013	10.76	12.56	LPH183M050E8P3
4,700	H1	0.064	0.046	3.80	4.50	LPH472M050H1P3
6,800	H3	0.046	0.033	4.80	5.62	LPH682M050H3P3
8,200	H5	0.037	0.027	5.64	6.64	LPH822M050H5P3
10,000	H7	0.031	0.023	6.52	7.62	LPH103M050H7P3
15,000	H9	0.023	0.018	8.30	9.56	LPH153M050H9P3
18,000	H6	0.019	0.014	10.10	11.64	LPH183M050H6P3
27,000	H8	0.015	0.012	12.64	14.20	LPH273M050H8P3
12,000	M5	0.034	0.027	6.44	7.24	LPH123M050M5P3
15,000	M7	0.028	0.023	7.40	8.28	LPH153M050M7P3
18,000	M9	0.022	0.018	9.16	10.30	LPH183M050M9P3

35 WVDC; 44 VDC Surge

63 WVDC; 79 VDC Surge

2,700	A1	0.133	0.099	1.98	2.30	LPH272M035A1P3
3,900	A3	0.095	0.072	2.54	2.92	LPH392M035A3P3
4,700	A5	0.078	0.059	2.98	3.44	LPH472M035A5P3
5,600	A7	0.066	0.050	3.44	3.96	LPH562M035A7P3
6,800	A4	0.056	0.043	3.94	4.50	LPH682M035A4P3
8,200	A9	0.048	0.037	4.44	5.06	LPH822M035A9P3
3,900	C1	0.113	0.089	2.32	2.62	LPH392M035C1P3
4,700	C3	0.087	0.068	2.84	3.24	LPH472M035C3P3
6,800	C5	0.066	0.053	3.48	3.90	LPH682M035C5P3
8,200	C7	0.056	0.045	4.02	4.50	LPH822M035C7P3
10,000	C4	0.048	0.039	4.58	5.08	LPH103M035C4P3
10,000	C9	0.044	0.035	4.96	5.58	LPH103M035C9P3
5,600	E1	0.065	0.049	3.40	3.94	LPH562M035E1P3
6,800	E3	0.052	0.038	4.12	4.78	LPH682M035E3P3
10,000	E5	0.038	0.029	5.12	5.86	LPH103M035E5P3
12,000	E7	0.032	0.024	5.90	6.74	LPH123M035E7P3
12,000	E4	0.030	0.023	6.36	7.32	LPH123M035E4P3
15,000	E9	0.026	0.020	7.24	8.28	LPH153M035E9P3
22,000	E6	0.019	0.015	9.24	10.42	LPH223M035E6P3
27,000	E8	0.016	0.013	11.16	12.52	LPH273M035E8P3
6,800	H1	0.060	0.046	3.94	4.46	LPH682M035H1P3
10,000	H3	0.043	0.034	4.98	5.60	LPH103M035H3P3

1,200	A1	0.160	0.102	1.80	2.26	LPH122M063A1P3
1,800	A3	0.112	0.073	2.34	2.88	LPH182M063A3P3
2,200	A5	0.091	0.059	2.76	3.44	LPH222M063A5P3
2,700	A7	0.075	0.049	3.22	3.98	LPH272M063A7P3
3,300	A4	0.064	0.042	3.68	4.52	LPH332M063A4P3
3,300	A9	0.061	0.039	3.96	4.92	LPH332M063A9P3
1,500	C1	0.143	0.096	2.06	2.52	LPH152M063C1P3
2,200	C3	0.102	0.071	2.62	3.16	LPH222M063C3P3

SMALL CANS

Aerovox® An ISO 9000 Company

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

Type LPH

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		

63 WVDC; 79 VDC Surge

2,700	C5	0.083	0.057	3.12	3.76	LPH272M063C5P3
3,300	C7	0.069	0.048	3.62	4.36	LPH332M063C7P3
3,900	C4	0.059	0.041	4.10	4.92	LPH392M063C4P3
4,700	C9	0.052	0.037	4.60	5.46	LPH472M063C9P3
2,200	E1	0.085	0.053	3.00	3.80	LPH222M063E1P3
3,300	E3	0.059	0.038	3.86	4.82	LPH332M063E3P3
3,900	E5	0.049	0.031	4.50	5.66	LPH392M063E5P3
4,700	E7	0.041	0.026	5.20	6.52	LPH472M063E7P3
5,600	E4	0.035	0.023	5.92	7.36	LPH562M063E4P3
6,800	E9	0.030	0.020	6.70	8.24	LPH682M063E9P3
10,000	E6	0.022	0.015	8.58	10.34	LPH103M063E6P3
12,000	E8	0.019	0.013	10.36	12.44	LPH123M063E8P3
3,300	H1	0.069	0.048	3.64	4.38	LPH332M063H1P3
4,700	H3	0.050	0.035	4.58	5.46	LPH472M063H3P3
5,600	H5	0.041	0.029	5.40	6.46	LPH562M063H5P3
6,800	H7	0.034	0.024	6.22	7.44	LPH682M063H7P3
10,000	H9	0.026	0.019	7.90	9.28	LPH103M063H9P3
12,000	H6	0.021	0.015	9.66	11.38	LPH123M063H6P3
18,000	H8	0.016	0.013	12.12	13.86	LPH183M063H8P3
8,200	M5	0.038	0.030	6.06	6.88	LPH822M063M5P3
10,000	M7	0.032	0.025	6.98	7.90	LPH103M063M7P3
12,000	M9	0.025	0.019	8.68	9.92	LPH123M063M9P3

80 WVDC; 100 VDC Surge

10,000	H8	0.019	0.014	11.16	13.14	LPH103M080H8P3
3,900	M5	0.046	0.032	5.52	6.62	LPH392M080M5P3
4,700	M7	0.038	0.027	6.36	7.60	LPH472M080M7P3
6,800	M9	0.029	0.021	8.06	9.48	LPH682M080M9P3

100 WVDC; 125 VDC Surge

470	A1	0.223	0.125	1.54	2.04	LPH471M100A1P3
560	A3	0.181	0.099	1.84	2.48	LPH561M100A3P3
820	A5	0.129	0.073	2.32	3.08	LPH821M100A5P3
1,000	A7	0.107	0.061	2.70	3.58	LPH102M100A7P3
1,200	A4	0.091	0.052	3.08	4.06	LPH122M100A4P3
1,200	A9	0.088	0.050	3.28	4.38	LPH122M100A9P3
560	C1	0.198	0.116	1.76	2.30	LPH561M100C1P3
820	C3	0.140	0.083	2.24	2.92	LPH821M100C3P3
1,000	C5	0.113	0.067	2.66	3.46	LPH102M100C5P3
1,200	C7	0.095	0.057	3.08	3.98	LPH122M100C7P3
1,500	C4	0.079	0.048	3.56	4.54	LPH152M100C4P3
1,800	C9	0.068	0.042	4.02	5.08	LPH182M100C9P3
820	E1	0.124	0.067	2.48	3.36	LPH821M100E1P3
1,200	E3	0.086	0.048	3.18	4.28	LPH122M100E3P3
1,500	E5	0.069	0.039	3.78	5.08	LPH152M100E5P3
1,800	E7	0.058	0.032	4.38	5.84	LPH182M100E7P3
2,200	E4	0.049	0.028	5.02	6.68	LPH222M100E4P3
2,700	E9	0.041	0.024	5.74	7.54	LPH272M100E9P3
3,300	E6	0.034	0.020	7.00	9.18	LPH332M100E6P3
4,700	E8	0.025	0.016	8.98	11.48	LPH472M100E8P3
1,200	H1	0.095	0.057	3.10	4.02	LPH122M100H1P3
1,800	H3	0.067	0.041	3.98	5.08	LPH182M100H3P3
2,200	H5	0.054	0.033	4.70	6.00	LPH222M100H5P3
2,700	H7	0.045	0.028	5.46	6.94	LPH272M100H7P3
3,300	H9	0.036	0.022	6.68	8.54	LPH332M100H9P3
4,700	H6	0.027	0.017	8.50	10.64	LPH472M100H6P3
6,800	H8	0.021	0.014	10.78	13.12	LPH682M100H8P3
2,700	M5	0.049	0.032	5.34	6.62	LPH272M100M5P3
3,300	M7	0.041	0.027	6.18	7.60	LPH332M100M7P3
4,700	M9	0.031	0.021	7.82	9.48	LPH472M100M9P3

80 WVDC; 100 VDC Surge

680	A1	0.205	0.125	1.60	2.04	LPH681M080A1P3
820	A3	0.165	0.099	1.92	2.48	LPH821M080A3P3
1,200	A5	0.118	0.073	2.42	3.08	LPH122M080A5P3
1,500	A7	0.096	0.060	2.84	3.60	LPH152M080A7P3
1,500	A4	0.093	0.057	3.06	3.90	LPH152M080A4P3
1,800	A9	0.079	0.049	3.46	4.40	LPH182M080A9P3
820	C1	0.181	0.116	1.84	2.30	LPH821M080C1P3
1,200	C3	0.128	0.083	2.34	2.92	LPH122M080C3P3
1,500	C5	0.103	0.067	2.80	3.46	LPH152M080C5P3
1,800	C7	0.086	0.056	3.24	4.00	LPH182M080C7P3
2,200	C4	0.073	0.048	3.70	4.56	LPH222M080C4P3
2,700	C9	0.062	0.042	4.20	5.10	LPH272M080C9P3
1,200	E1	0.112	0.067	2.60	3.36	LPH122M080E1P3
1,800	E3	0.077	0.047	3.36	4.30	LPH182M080E3P3
2,200	E5	0.063	0.038	3.96	5.08	LPH222M080E5P3
2,700	E7	0.052	0.032	4.62	5.88	LPH272M080E7P3
3,300	E4	0.044	0.027	5.30	6.72	LPH332M080E4P3
3,900	E9	0.038	0.024	5.98	7.52	LPH392M080E9P3
4,700	E6	0.031	0.020	7.26	9.12	LPH472M080E6P3
6,800	E8	0.024	0.016	9.32	11.44	LPH682M080E8P3
1,800	H1	0.086	0.056	3.26	4.04	LPH182M080H1P3
2,200	H3	0.068	0.043	3.94	4.94	LPH222M080H3P3
3,300	H5	0.049	0.033	4.92	6.02	LPH332M080H5P3
3,900	H7	0.042	0.028	5.66	6.92	LPH392M080H7P3
4,700	H9	0.034	0.022	6.90	8.50	LPH472M080H9P3
6,800	H6	0.025	0.017	8.80	10.64	LPH682M080H6P3

160 WVDC; 200 VDC Surge

220	A1	0.463	0.220	1.06	1.54	LPH221M160A1P3
330	A3	0.313	0.151	1.40	2.00	LPH331M160A3P3
390	A5	0.263	0.126	1.62	2.34	LPH391M160A5P3
470	A7	0.219	0.106	1.88	2.72	LPH471M160A7P3
560	A4	0.185	0.090	2.16	3.10	LPH561M160A4P3
680	A9	0.155	0.076	2.48	3.54	LPH681M160A9P3
270	C1	0.389	0.191	1.26	1.78	LPH271M160C1P3
390	C3	0.273	0.136	1.60	2.28	LPH391M160C3P3
560	C5	0.196	0.101	2.02	2.82	LPH561M160C5P3
680	C7	0.163	0.084	2.36	3.28	LPH681M160C7P3
680	C4	0.158	0.079	2.52	3.54	LPH681M160C4P3
820	C9	0.133	0.068	2.86	4.02	LPH821M160C9P3

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Type LPH

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

470	E1	0.219	0.105	1.86	2.68	LPH471M160E1P3
560	E3	0.181	0.086	2.20	3.20	LPH561M160E3P3
820	E5	0.126	0.061	2.80	4.02	LPH821M160E5P3
1,000	E7	0.104	0.051	3.26	4.68	LPH102M160E7P3
1,000	E4	0.103	0.049	3.46	5.00	LPH102M160E4P3
1,200	E9	0.086	0.042	3.94	5.66	LPH122M160E9P3
1,800	E6	0.060	0.030	5.26	7.42	LPH182M160E6P3
2,200	E8	0.049	0.025	6.44	9.02	LPH222M160E8P3
560	H1	0.189	0.094	2.20	3.14	LPH561M160H1P3
820	H3	0.131	0.066	2.84	4.00	LPH821M160H3P3
1,000	H5	0.107	0.054	3.34	4.70	LPH102M160H5P3
1,200	H7	0.090	0.045	3.84	5.42	LPH122M160H7P3
1,800	H9	0.062	0.033	5.08	7.02	LPH182M160H9P3
2,200	H6	0.051	0.027	6.20	8.56	LPH222M160H6P3
3,300	H8	0.036	0.020	8.16	10.96	LPH332M160H8P3
1,500	M5	0.081	0.045	4.16	5.58	LPH152M160M5P3
1,800	M7	0.068	0.038	4.80	6.42	LPH182M160M7P3
2,200	M9	0.054	0.030	5.88	7.90	LPH222M160M9P3

200 WVDC; 250 VDC Surge

120	A1	0.646	0.307	0.90	1.30	LPH121M200A1P3
180	A1	0.492	0.212	1.04	1.58	LPH181M200A1P3
180	A3	0.435	0.209	1.18	1.70	LPH181M200A3P3
220	A3	0.399	0.169	1.24	1.90	LPH221M200A3P3
220	A5	0.355	0.171	1.40	2.02	LPH221M200A5P3
330	A5	0.272	0.119	1.60	2.42	LPH331M200A5P3
270	A7	0.291	0.140	1.64	2.36	LPH271M200A7P3
390	A7	0.230	0.101	1.84	2.78	LPH391M200A7P3
330	A4	0.240	0.117	1.90	2.72	LPH331M200A4P3
470	A4	0.193	0.085	2.12	3.18	LPH471M200A4P3
390	A9	0.204	0.100	2.16	3.08	LPH391M200A9P3
470	A9	0.190	0.083	2.24	3.40	LPH471M200A9P3
180	C1	0.451	0.226	1.16	1.64	LPH181M200C1P3
220	C1	0.415	0.186	1.22	1.80	LPH221M200C1P3
220	C3	0.364	0.179	1.40	1.98	LPH221M200C3P3
330	C3	0.282	0.129	1.58	2.34	LPH331M200C3P3
330	C5	0.250	0.127	1.80	2.52	LPH331M200C5P3
390	C5	0.236	0.107	1.84	2.74	LPH391M200C5P3
390	C7	0.212	0.107	2.06	2.90	LPH391M200C7P3
470	C7	0.197	0.090	2.14	3.18	LPH471M200C7P3
470	C4	0.177	0.091	2.38	3.32	LPH471M200C4P3
560	C4	0.167	0.077	2.44	3.62	LPH561M200C4P3
560	C9	0.151	0.078	2.70	3.74	LPH561M200C9P3
680	C9	0.140	0.066	2.80	4.08	LPH681M200C9P3
270	E1	0.290	0.140	1.62	2.32	LPH271M200E1P3
330	E1	0.266	0.113	1.68	2.60	LPH331M200E1P3
390	E3	0.202	0.098	2.08	3.00	LPH391M200E3P3
470	E3	0.188	0.081	2.16	3.30	LPH471M200E3P3
470	E5	0.168	0.081	2.44	3.50	LPH471M200E5P3
560	E5	0.157	0.067	2.52	3.84	LPH561M200E5P3
560	E7	0.141	0.068	2.80	4.04	LPH561M200E7P3
680	E7	0.130	0.056	2.92	4.46	LPH681M200E7P3
680	E4	0.117	0.057	3.24	4.64	LPH681M200E4P3
820	E4	0.109	0.047	3.36	5.10	LPH821M200E4P3
820	E9	0.098	0.049	3.70	5.24	LPH821M200E9P3
1,000	E9	0.090	0.040	3.86	5.82	LPH102M200E9P3
1,200	E6	0.075	0.033	4.68	7.04	LPH122M200E6P3
1,800	E8	0.052	0.024	6.26	9.18	LPH182M200E8P3
390	H1	0.212	0.108	2.08	2.92	LPH391M200H1P3
470	H1	0.197	0.090	2.16	3.20	LPH471M200H1P3
560	H3	0.149	0.077	2.66	3.70	LPH561M200H3P3
680	H3	0.138	0.064	2.76	4.06	LPH681M200H3P3
680	H5	0.122	0.063	3.12	4.36	LPH681M200H5P3
820	H5	0.114	0.052	3.24	4.78	LPH821M200H5P3
820	H7	0.102	0.052	3.62	5.06	LPH821M200H7P3
1,000	H7	0.094	0.044	3.76	5.52	LPH102M200H7P3
1,000	H4	0.085	0.044	4.16	5.78	LPH102M200H4P3
1,200	H9	0.078	0.035	4.54	6.72	LPH122M200H9P3
1,800	H6	0.054	0.026	6.02	8.68	LPH182M200H6P3
2,200	H8	0.045	0.022	7.36	10.56	LPH222M200H8P3

180 WVDC; 225 VDC Surge

180	A1	0.514	0.227	1.00	1.52	LPH181M180A1P3
270	A3	0.347	0.156	1.32	1.98	LPH271M180A3P3
330	A5	0.284	0.127	1.56	2.34	LPH331M180A5P3
390	A7	0.240	0.108	1.80	2.68	LPH391M180A7P3
470	A4	0.201	0.091	2.08	3.08	LPH471M180A4P3
560	A9	0.170	0.078	2.36	3.48	LPH561M180A9P3
270	C1	0.366	0.175	1.30	1.86	LPH271M180C1P3
330	C3	0.293	0.137	1.56	2.28	LPH331M180C3P3
470	C5	0.212	0.102	1.94	2.80	LPH471M180C5P3
560	C7	0.178	0.086	2.26	3.24	LPH561M180C7P3
680	C4	0.148	0.073	2.60	3.70	LPH681M180C4P3
680	C9	0.145	0.069	2.74	3.98	LPH681M180C9P3
390	E1	0.240	0.107	1.78	2.66	LPH391M180E1P3
470	E3	0.197	0.087	2.12	3.18	LPH471M180E3P3
680	E5	0.138	0.063	2.68	3.98	LPH681M180E5P3
820	E7	0.115	0.052	3.10	4.60	LPH821M180E7P3
1,000	E4	0.095	0.044	3.58	5.30	LPH102M180E4P3
1,000	E9	0.094	0.043	3.78	5.62	LPH102M180E9P3
1,500	E6	0.065	0.030	5.04	7.36	LPH152M180E6P3
1,800	E8	0.054	0.026	6.12	8.90	LPH182M180E8P3
560	H1	0.178	0.086	2.28	3.28	LPH561M180H1P3
680	H3	0.143	0.067	2.72	3.96	LPH681M180H3P3
820	H5	0.118	0.055	3.18	4.64	LPH821M180H5P3
1,200	H7	0.085	0.042	3.96	5.66	LPH122M180H7P3
1,500	H9	0.067	0.033	4.88	6.96	LPH152M180H9P3
1,800	H6	0.056	0.027	5.92	8.46	LPH182M180H6P3
2,700	H8	0.040	0.021	7.82	10.84	LPH272M180H8P3
1,200	M5	0.089	0.046	3.96	5.52	LPH122M180M5P3
1,500	M7	0.073	0.038	4.64	6.38	LPH152M180M7P3
1,800	M9	0.059	0.030	5.62	7.84	LPH182M180M9P3

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Type LPH

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	

200 WVDC; 250 VDC Surge

820	M5	0.106	0.057	3.64	4.96	LPH821M200M5P3
1,000	M5	0.098	0.048	3.78	5.42	LPH102M200M5P3
1,000	M7	0.088	0.047	4.20	5.76	LPH102M200M7P3
1,200	M7	0.082	0.040	4.36	6.24	LPH122M200M7P3
1,500	M9	0.061	0.034	5.54	7.42	LPH152M200M9P3
1,800	M9	0.057	0.029	5.70	7.98	LPH182M200M9P3

250 WVDC; 300 VDC Surge

270	E1	0.285	0.107	1.64	2.66	LPH271M250E1P3
220	E3	0.258	0.108	1.84	2.84	LPH221M250E3P3
330	E3	0.231	0.086	1.94	3.20	LPH331M250E3P3
270	E5	0.210	0.088	2.18	3.36	LPH271M250E5P3
470	E5	0.165	0.063	2.46	3.98	LPH471M250E5P3
390	E7	0.148	0.064	2.74	4.16	LPH391M250E7P3
560	E7	0.138	0.053	2.84	4.58	LPH561M250E7P3
390	E4	0.147	0.062	2.88	4.44	LPH391M250E4P3
680	E4	0.115	0.044	3.26	5.26	LPH681M250E4P3
470	E9	0.123	0.052	3.30	5.08	LPH471M250E9P3
680	E9	0.114	0.043	3.44	5.58	LPH681M250E9P3
1,000	E6	0.079	0.031	4.56	7.26	LPH102M250E6P3
1,200	E8	0.066	0.027	5.54	8.78	LPH122M250E8P3
220	H1	0.266	0.116	1.86	2.82	LPH221M250H1P3
330	H1	0.239	0.094	1.96	3.12	LPH331M250H1P3
330	H3	0.180	0.080	2.42	3.64	LPH331M250H3P3
470	H3	0.169	0.068	2.50	3.96	LPH471M250H3P3
390	H5	0.151	0.067	2.82	4.22	LPH391M250H5P3
680	H5	0.121	0.050	3.14	4.88	LPH681M250H5P3
470	H7	0.126	0.056	3.24	4.88	LPH471M250H7P3
820	H7	0.100	0.042	3.64	5.64	LPH821M250H7P3
560	H4	0.106	0.048	3.72	5.52	LPH561M250H4P3
680	H9	0.089	0.040	4.24	6.32	LPH681M250H9P3
1,000	H9	0.082	0.034	4.44	6.90	LPH102M250H9P3
1,500	H6	0.057	0.025	5.88	8.88	LPH152M250H6P3
1,800	H8	0.048	0.021	7.14	10.74	LPH182M250H8P3
560	M5	0.113	0.055	3.52	5.04	LPH561M250M5P3
820	M5	0.105	0.046	3.66	5.50	LPH821M250M5P3
680	M7	0.094	0.046	4.08	5.82	LPH681M250M7P3
1,000	M7	0.087	0.039	4.24	6.34	LPH102M250M7P3
1,000	M9	0.066	0.033	5.32	7.52	LPH102M250M9P3
1,200	M9	0.071	0.031	5.14	7.78	LPH122M250M9P3

250 WVDC; 300 VDC Surge

82	A1	0.691	0.289	0.86	1.34	LPH820M250A1P3
120	A1	0.633	0.234	0.90	1.50	LPH121M250A1P3
120	A3	0.476	0.201	1.14	1.74	LPH121M250A3P3
180	A3	0.427	0.160	1.20	1.94	LPH181M250A3P3
150	A5	0.381	0.161	1.34	2.08	LPH151M250A5P3
220	A5	0.349	0.131	1.42	2.30	LPH221M250A5P3
180	A7	0.318	0.135	1.56	2.40	LPH181M250A7P3
270	A7	0.285	0.108	1.66	2.68	LPH271M250A7P3
220	A4	0.262	0.112	1.82	2.78	LPH221M250A4P3
330	A4	0.235	0.090	1.92	3.10	LPH331M250A4P3
220	A9	0.260	0.110	1.92	2.94	LPH221M250A9P3
390	A9	0.201	0.078	2.18	3.50	LPH391M250A9P3
100	C1	0.578	0.248	1.02	1.56	LPH101M250C1P3
180	C1	0.444	0.178	1.18	1.84	LPH181M250C1P3
150	C3	0.390	0.170	1.34	2.04	LPH151M250C3P3
220	C3	0.358	0.140	1.40	2.24	LPH221M250C3P3
180	C5	0.324	0.141	1.58	2.38	LPH181M250C5P3
330	C5	0.246	0.101	1.80	2.82	LPH331M250C5P3
220	C7	0.266	0.116	1.84	2.78	LPH221M250C7P3
390	C7	0.208	0.085	2.08	3.24	LPH391M250C7P3
270	C4	0.219	0.097	2.14	3.20	LPH271M250C4P3
470	C4	0.175	0.073	2.40	3.70	LPH471M250C4P3
330	C9	0.182	0.082	2.46	3.66	LPH331M250C9P3
470	C9	0.171	0.069	2.54	3.98	LPH471M250C9P3
180	E1	0.318	0.134	1.54	2.38	LPH181M250E1P3

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