

PLM

+ 85°C 7mm Height Low- Leakage Radial Lead Aluminum Electrolytic Capacitors



For all timing applications

FEATURES

- Very small size
- Capacitance range: 0.1 μ F to 100 μ F
- Voltage range: 6.3 WVDC to 50 WVDC
- Solvent tolerant end seals standard

SPECIFICATIONS

Capacitance Tolerance		±20% at 120Hz, 20°C													
Operating Temperature Range		-40°C to +85°C													
Dissipation Factor 120Hz, 20°C	WVDC	6.3	10	16	25	35	50								
	tan δ	.24	.20	.16	.14	.12	.10								
Impedance Ratio (Max.) @120Hz	WVDC	6.3	10	16	25	35	50								
	-25/20°C	4	3	2	2	2	2								
	-40/20°C	10	8	6	4	3	3								
Leakage Current	WVDC	50 WVDC													
	Time	2 minutes													
		.002CV or .4µA whichever is greater													
Load Life		1,000 hours at 85°C with rated WVDC													
		Capacitance change Dissipation factor Leakage current					< 20% of initial measured values <200% of initial specified value <Initial specified value								
Shelf Life		1,000 hours at 85°C with no voltage applied. Units will meet load life specifications.													
Ripple Current Multipliers		Frequency (Hz)						Temperature (°C)							
		50	120	400	1K	10K	100K	+85	+70	+60	+45				
		0.8	1.0	1.3	1.36	1.48	1.53	1.0	1.3	1.5	1.8				

SPECIAL ORDER OPTIONS

(See pages 7 thru 11)

- Special tolerances: $\pm 10\%$ (K), -10% + 30% (Q)
- Tape and Reel/Ammo Pack
- Cut, formed, cut and formed, and snap-in leads
- Epoxy end seal
- Polyester sleeve



ILLINOIS CAPACITOR, INC. 3757 W. Touhy Ave., Lincolnwood, IL 60712 • (847) 675-1760 • Fax (847) 673-2850 • www.illcap.com

STANDARD PART LISTING

Capacitance (μF)	WVDC	ic PART NUMBER	Maximum ESR 120Hz, +20°C	Maximum RMS Ripple Current (mA) 120Hz, +85°C	Dimensions DxL (mm)
0.1	50	104PLM050M	1657	1	4x7
0.22	50	224PLM050M	753.5	2	4x7
0.33	50	334PLM050M	502.3	3	4x7
0.47	50	474PLM050M	352.7	5	4x7
1.0	50	105PLM050M	165.7	10	4x7
2.2	50	225PLM050M	75.35	17	4x7
3.3	50	335PLM050M	50.23	20	4x7
4.7	35	475PLM035M	42.32	22	4x7
4.7	50	475PLM050M	35.27	27	5x7
10.0	16	106PLM016M	26.52	27	4x7

Capacitance (μF)	WVDC	ic PART NUMBER	Maximum ESR 120Hz, +20°C	Maximum RMS Ripple Current (mA) 120Hz, +85°C	Dimensions DxL (mm)
10.0	35	106PLM035M	19.89	34	5x7
10.0	50	106PLM050M	16.57	41	6.3x7
22.0	6.3	226PLM6R3M	18.08	31	4x7
22.0	16	226PLM016M	12.05	43	5x7
22.0	35	226PLM035M	9.04	56	6.3x7
33.0	10	336PLM010M	10.04	48	5x7
33.0	25	336PLM025M	7.03	62	6.3x7
47.0	6.3	476PLM6R3M	8.47	52	5x7
47.0	16	476PLM016M	5.64	69	6.3x7
100.0	6.3	107PLM6R3M	3.98	82	6.3x7

NOTE 1: WVDC: MAXIMUM RATED DC WORKING VOLTAGE AT +85°C.

NOTE 2: SVDC: MAXIMUM RATED DC SURGE VOLTAGE AT +85°C.

NOTE 3: DISSIPATION FACTOR (TAN δ) MAXIMUM; 120 Hz, +25°C.

NOTE 4: ESR: MAXIMUM EQUIVALENT SERIES RESISTANCE; 120 Hz, +25°C
MINIMUM CAPACITANCE, MAXIMUM DISSIPATION FACTOR.

NOTE 5: MAXIMUM LEAKAGE CURRENT; RATED WVDC, 2 MINUTES, + 25°C.

NOTE 6: RMS RIPPLE CURRENT; 120 Hz, +85°C.

NOTE 7: CAPACITANCE TOLERANCE IS MEASURED AT 120 Hz, +25°C.

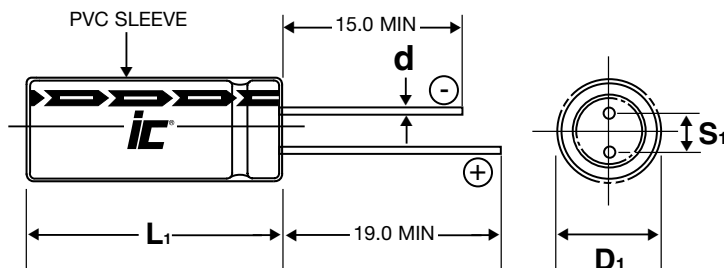
NOTE 8: ALL MEASUREMENTS ARE PERFORMED USING THE BRIDGE METHOD.

PHYSICAL DIMENSIONS

WVDC (V) (μF)	6.3 (8)	10 (13)	16 (20)	25 (32)	35 (44)	50 (63)
0.1						4x7
.22						4x7
.33						4x7
.47						4x7
1.0						4x7
2.2						4x7
3.3						4x7
4.7						4x7
10			4x7		4x7	5x7
22	4x7		5x7		5x7	6.3x7
33		5x7		6.3x7		
47	5x7		6.3x7			
100	6.3x7					

Convert to inches, divide by 25.4

DxL(mm)



D	4	5	6.3
S	1.5	2.0	2.5
d	.45	.45	.45

L1= L+1mm Max.
S1= S± 0.5 mm Max.
D1= D+ 0.5 mm Max.