

PUM

**+ 85°C 7mm Height
Low Profile
Radial Lead Aluminum
Electrolytic Capacitors**



For all general purpose applications

FEATURES

- *Very small size*
- *Capacitance range: 4.7 μ F to 220 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, 25°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	4	4								
Leakage current	WVDC	50 WVDC													
	Time	2 minutes													
		.01 CV or 3 μA whichever is greater													
Load Life		2,000 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	+30				
		0.8	1.0	1.3	1.45	1.65	1.7	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



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)
4.7	50	475PUM050M	35.27	23	4x7
6.8	35	685PUM035M	29.25	24	4x7
6.8	50	685PUM050M	24.38	27	5x7
10	35	106PUM035M	19.89	31	4x7
10	50	106PUM050M	16.57	37	5x7
15	35	156PUM035M	13.26	39	5x7
15	50	156PUM050M	11.05	43	6.3x7
22	16	226PUM016M	12.05	40	4x7
22	35	226PUM035M	9.04	50	5x7
22	50	226PUM050M	7.54	59	6.3x7
33	10	336PUM010M	10.04	44	4x7

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 (tanδ) MAXIMUM; 120 Hz, +25°C.

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

Capacitance (μF)	WVDC	IC PART NUMBER	Maximum ESR 120Hz, +20°C	Maximum RMS Ripple Current (mA) 120Hz, +85°C	Dimensions DxL (mm)
33	25	336PUM025M	7.03	57	5x7
33	35	336PUM035M	6.03	67	6.3x7
47	6.3	476PUM6R3M	8.47	46	4x7
47	16	476PUM016M	5.64	64	5x7
47	25	476PUM025M	4.94	74	6.3x7
68	6.3	686PUM6R3M	5.85	58	5x7
68	16	686PUM016M	3.90	76	6.3x7
100	6.3	107PUM6R3M	3.98	76	5x7
100	16	107PUM016M	2.65	100	6.3x7
150	6.3	157PUM6R3M	2.65	90	6.3x7
220	6.3	227PUM6R3M	1.81	115	6.3x7

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.

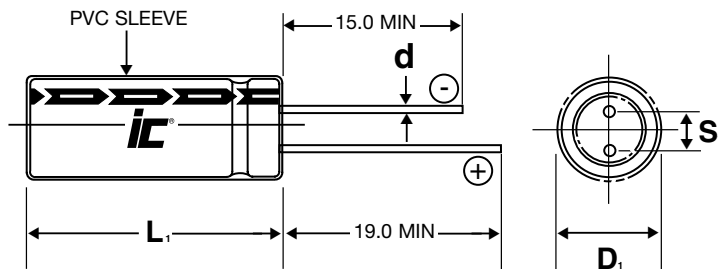
NOTE 8: ALL MEASUREMENTS ARE PERFORMED USING THE BRIDGE METHOD.

PHYSICAL DIMENSIONS

WVDC (V)	6.3 (8)	10 (13)	16 (20)	25 (32)	35 (44)	50 (63)
4.7					→	4x7
6.8				→	4x7	5x7
10				→	4x7	5x7
15				→	5x7	6.3x7
22		→	4x7	→	5x7	6.3x7
33	→	4x7	→	5x7	6.3x7	
47	4x7	→	5x7	6.3x7		
68	5x7	→	6.3x7			
100	5x7	→	6.3x7			
150	6.3x7					
220	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 ± .5mm
D1 = D + .5mm Max.