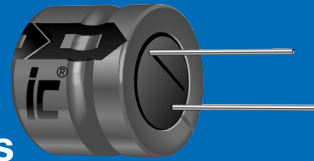


# PUM

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



*For all general purpose applications*

### FEATURES

- *Very small size*
- *Capacitance range: 4.7  $\mu$ F to 220  $\mu$ F*
- *Voltage range: 6.3 WVDC to 50 WVDC*
- *Solvent tolerant end seals standard*

### SPECIFICATIONS

<b>Capacitance Tolerance</b>		<b><math>\pm 20\%</math> at 120Hz, 20°C</b>												
<b>Operating Temperature Range</b>		<b>-40°C to +85°C</b>												
<b>Dissipation Factor 120Hz, 25°C</b>	<b>WVDC</b>	<b>6.3</b>	<b>10</b>	<b>16</b>	<b>25</b>	<b>35</b>	<b>50</b>							
	<b>tan <math>\delta</math></b>	.24	.20	.16	.14	.12	.10							
<b>Impedance Ratio (Max.) @120Hz</b>	<b>WVDC</b>	<b>6.3</b>	<b>10</b>	<b>16</b>	<b>25</b>	<b>35</b>	<b>50</b>							
	<b>-25/20°C</b>	4	3	2	2	2	2							
	<b>-40/20°C</b>	10	8	6	4	4	4							
<b>Leakage current</b>	<b>WVDC</b>	<b><math>\leq 50</math> WVDC</b>												
	<b>Time</b>	<b>2 minutes</b>												
		.01 CV or 3 $\mu$ A whichever is greater												
<b>Load Life</b>	<b>2,000 hours at 85°C with rated WVDC</b>													
	Capacitance change Dissipation factor Leakage current	< 20% of initial measured values <200% of initial specified value <Initial specified value												
<b>Shelf Life</b>	1,000 hours at 85°C with no voltage applied. Units will meet load life specifications.													
<b>Ripple Current Multipliers</b>	<b>Frequency (Hz)</b>						<b>Temperature (°C)</b>							
	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 33 thru 37)

- *Special tolerances:  $\pm 10\%$  (K),  $-10\% + 30\%$  (Q)*
- *Tape and Reel/Ammo-Pack*
- *Cut, Formed, Cut and Formed, and Snap In Leads*



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

# PUM

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

## STANDARD PART LISTING

Capacitance (μF)	WVDC	IC PART NUMBER	Maximum ESR Ω 120Hz,+20°C	Maximum RMS Ripple Current (mA) 120Hz,+85°C	Dimensions DxDL (mm)
4.7	50	475PUM050M	35.274	23	4x7
6.8	35	685PUM035M	29.256	24	4x7
6.8	50	685PUM050M	24.380	27	5x7
10	35	106PUM035M	19.894	31	4x7
10	50	106PUM050M	16.579	37	5x7
15	35	156PUM035M	13.263	39	5x7
15	50	156PUM050M	11.052	43	6.3x7
22	16	226PUM016M	12.057	40	4x7
22	35	226PUM035M	9.043	50	5x7
22	50	226PUM050M	7.536	59	6.3x7
22	50	226PUM050MD8	7.536	75	8x7
33	10	336PUM010M	10.048	44	4x7
33	25	336PUM025M	7.033	57	5x7
33	35	336PUM035M	6.029	67	6.3x7

Capacitance (μF)	WVDC	IC PART NUMBER	Maximum ESR Ω 120Hz,+20°C	Maximum RMS Ripple Current (mA) 120Hz,+85°C	Dimensions DxDL (mm)
33	50	336PUM050M	5.024	95	8x7
47	6.3	476PUM6R3M	8.466	46	4x7
47	16	476PUM016M	5.644	64	5x7
47	25	476PUM025M	4.938	74	6.3x7
47	35	476PUM035M	4.233	100	8x7
68	6.3	686PUM6R3M	5.851	58	5x7
68	16	686PUM016M	3.901	76	6.3x7
100	6.3	107PUM6R3M	3.979	76	5x7
100	16	107PUM016M	2.653	100	6.3x7
100	25	107PUM025M	2.321	140	8x7
150	6.3	157PUM6R3M	2.653	90	6.3x7
220	6.3	227PUM6R3M	1.809	115	6.3x7
220	16	227PUM016M	1.206	190	8x7
330	6.3	337PUM6R3M	1.206	190	8x7

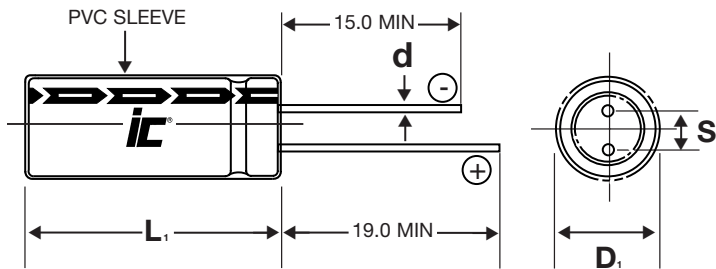
Aluminum Electrolytic

## PHYSICAL DIMENSIONS

WVDC (SV) (μF)	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, 8x7
33		4x7		5x7	6.3x7	8x7
47	4x7		5x7	6.3x7	8x7	
68	5x7		6.3x7			
100	5x7		6.3x7	8x7		
150	6.3x7					
220	6.3x7		8x7			
330	8x7					

Convert to inches, divide by 25.4

DxDL (mm)



### LEAD INFORMATION V.S. CASE DIAMETER

D	4	5	6.3	8
S	1.5	2.0	2.5	3.5
d	.45	.45	.45	.50

L<sub>1</sub> = L+1mm Max.  
S<sub>1</sub> = S±.5mm  
D<sub>1</sub> = D+.5mm Max.