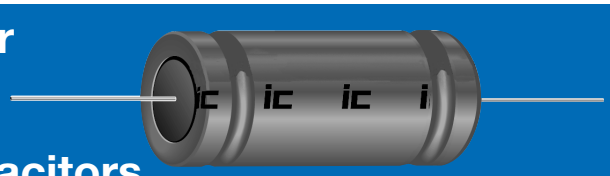
BPA

+85°C Non-Polar Axial Lead Aluminum Electrolytic Capacitors



For all applications with unknown/reversing polarity

FEATURES

- *Audio Coupling*
- *Crossover Networks*
- *Capacitance range: .47 µF to 1000 µF*
- *Voltage range: 16 WVDC to 100 WVDC*

SPECIFICATIONS

Capacitance Tolerance		**±20% at 120Hz, 25°C**				
Operating Temperature Range		**-40°C to +85°C**				
Dissipation Factor 120Hz, 25°C	**WVDC**	**16**	**25**	**50**	**100**	
	tanδ	.22	.20	.14	.1	
Leakage Current	**WVDC**	**100 WVDC**				
	Time	**5 minutes**				
		< .05 CV or 3µA whichever is greater				
Impedance Ratio 120Hz	**WVDC**	**16**	**25**	**50**	**100**	
	-25°C/20°C	2	2	2	2	
	-40°C/20°C	6	5	4	3	
Long LIfe		**2,000 hours at +85°C with rated voltage reversing polarity every 250 hours**				
		Capacitance change Dissipation factor Leakage current		< 20% of initial measured value <200% of initial specified value <Initial specified value		
Shelf Life		1000 hours at + 85°C with no voltage applied. Units will meet load life specification				

Ripple Current Multipliers	**Frequency (Hz)**						**Temperature (°C)**			
Capacitance (µF)	50	120	400	1K	10K	100K	+85	+70	+60	+45
C≤10	.72	1.0	1.25	1.45	1.65	1.7	1.0	1.3	1.5	1.8
10<C≤100	.75	1.0	1.19	1.36	1.53	1.57	1.0	1.3	1.5	1.8
100<C≤1000	.79	1.0	1.15	1.30	1.45	1.49	1.0	1.3	1.5	1.8

SPECIAL ORDER OPTIONS

(See Pages 33 thru 37)

- *Special tolerances: ±10% (K), -10% + 30% (Q)*
- *Tape and Reel*
- *Polyester Sleeve*
- *Epoxy end seal*

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

BPA

+ 85°C Non-Polar Axial Lead Aluminum Electrolytic Capacitors

STANDARD PART LISTING

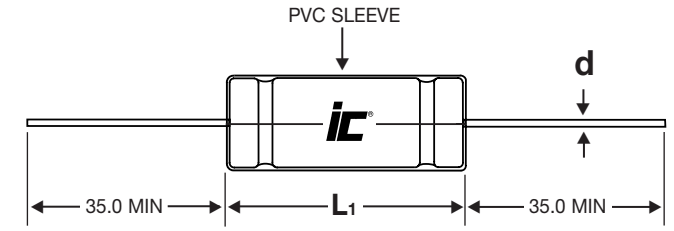
Capacitance (µF)	WVDC	IC PART NUMBER	Maximum ESR Ω 120Hz,+20°C	Maximum RMS Ripple Current (mA) 120Hz,+85°C	Dimension D x L (mm)
0.47	50	**474BPA050M**	493.832	13	6x16
1	50	**105BPA050M**	232.101	19	6x16
1	100	**105BPA100M**	165.786	25	6x16
2.2	50	**225BPA050M**	105.500	30	6x16
2.2	100	**225BPA100M**	75.357	36	6x16
3.3	50	**335BPA050M**	70.334	37	6x16
3.3	100	**335BPA100M**	50.238	46	6x16
4.7	50	**475BPA050M**	49.383	46	6x16
4.7	100	**475BPA100M**	35.274	55	6x16
10	50	**106BPA050M**	23.210	68	6x16
10	100	**106BPA100M**	16.579	92	8x19
15	25	**156BPA025M**	22.105	73	6x16
15	50	**156BPA050M**	15.473	98	8x16
22	25	**226BPA025M**	15.071	88	6x16
22	50	**226BPA050M**	10.550	120	8x16
22	100	**226BPA100M**	7.536	155	10x19
33	25	**336BPA025M**	10.048	120	8x16
33	50	**336BPA050M**	7.033	145	8x19
33	100	**336BPA100M**	5.024	210	10x24
47	16	**476BPA016M**	7.760	110	6x16
47	25	**476BPA025M**	7.055	140	8x16

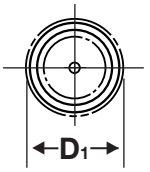
Capacitance (µF)	WVDC	IC PART NUMBER	Maximum ESR Ω 120Hz,+20°C	Maximum RMS Ripple Current (mA) 120Hz,+85°C	Dimension D x L (mm)
47	50	**476BPA050M**	4.938	200	10x19
47	100	**476BPA100M**	3.527	285	12.5x27
68	16	**686BPA016M**	5.364	155	8x16
68	25	**686BPA025M**	4.876	204	10x19
68	50	**686BPA050M**	3.413	260	10x24
100	16	**107BPA016M**	3.647	175	8x19
100	25	**107BPA025M**	3.316	235	10x19
100	50	**107BPA050M**	2.321	325	10x24
100	100	**107BPA100M**	1.658	500	16x34
150	25	**157BPA025M**	2.210	320	10x19
220	16	**227BPA016M**	1.658	290	10x19
220	25	**227BPA025M**	1.507	390	10x24
220	50	**227BPA050M**	1.055	600	12.5x31
330	16	**337BPA016M**	1.105	450	10x24
330	25	**337BPA025M**	1.005	555	12.5x27
330	50	**337BPA050M**	0.703	730	16x34
470	16	**477BPA016M**	0.776	565	10x30
470	25	**477BPA025M**	0.705	665	12.5x31
470	50	**477BPA050M**	0.494	860	16x39
1000	16	**108BPA016M**	0.365	950	12.5x31

PHYSICAL DIMENSIONS

µF \ WVDC (SV)	16 (20)	25 (32)	50 (63)	100 (125)
0.47	→	→	6x16	
1.0	→	→	6x16	6x16
2.2	→	→	6x16	6x16
3.3	→	→	6x16	6x16
4.7	→	→	6x16	6x16
10	→	→	6x16	8x19
15	→	6x16	8x16	
22	→	6x16	8x16	10x19
33	→	8x16	8x19	10x24
47	6x16	8x16	10x19	12.5x27
68	8x16	10x19	10x24	
100	8x19	10x19	10x24	16x34
150	→	10x19		
220	10x19	10x24	12.5x31	
330	10x24	12.5x27	16x34	
470	10x30	12.5x31	16x39	
1000	12.5x31			

DxL(mm)





LEAD INFORMATION VS. CASE DIAMETER

D	6.0	8.0	10.0	12.5	16.0
d	0.6	0.6	0.6	0.8	0.8

D_1= D ± .5mm
L_1= L + 2.0mm Max.

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