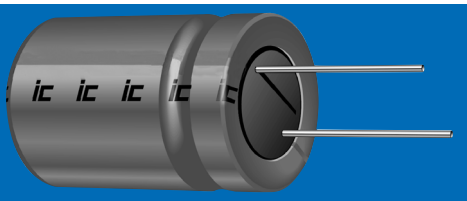
BPS

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



For all applications with unknown/reversed polarity

FEATURES

- *Audio Coupling*
- *Crossover Networks*
- *Capacitance Range: .47 µF to 4,700 µF*
- *Voltage Range: 10 WVDC to 100 WVDC*
- *Solvent Tolerant End Seals Standard*

SPECIFICATIONS

Capacitance Tolerance		**±20% at 120Hz, 25°C**						
Operating Temperature Range		**-40°C to + 85°C**						
Dissipation Factor 120Hz, 25°C	**WVDC**	**10**	**16**	**25**	**35**	**50**	**63**	**100**
	tan δ	.24	.22	.20	.16	.14	.12	.10
Impedance Ratio (Max.) @120Hz	**WVDC**	**10**	**16**	**25**	**35**	**50**	**63**	**100**
	-25°C/25°C	3	2	2	2	2	2	2
	-40°C/25°C	8	6	5	4	4	3	3
Leakage Current	**WVDC**	**≤ 100 WVDC**						
	Time	**5 minutes**						
		.03 CV or 3µA whichever is greater						
Load Life		**2,000 hours at +85°C, with rated WVDC 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		1,000 hours at +85°C with no voltage applied. Units will meet load life specifications						

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
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/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*

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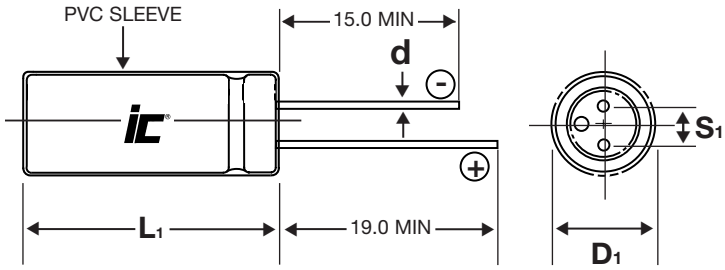
+ 85°C Non Polar Radial Lead Aluminum Electrolytic Capacitors

PHYSICAL DIMENSIONS

WVDC (SV) / (µF)	10 (13)	16 (20)	25 (32)	35 (44)	50 (63)	63 (79)	100 (125)
0.47	→	→	→	→	5x11	→	5x11
1	→	→	→	→	5x11	→	5x11
2.2	→	→	→	→	5x11	→	6.3x11
3.3	→	→	→	→	5x11	→	6.3x11
4.7	→	→	→	→	5x11	5x11	6.3x11
10	→	→	→	5x11	6.3x11	6.3x11	8x11.5
22	→	5x11	→	6.3x11	8x11.5	8x11.5	10x16
33	→	5x11	6.3x11	→	8x11.5	10x12.5	12.5x20
47	5x11	→	6.3x11	8x11.5	10x12.5	10x16	12.5x20
100	6.3x11	→	8x11.5	10x16	10x20	12.5x20	16x25
220	8x11.5	10x12.5	10x16	12.5x20	12.5x25	16x25	18x35.5
330	→	10x16	→	12.5x20	16x25	16x31.5	18x35.5
470	10x16	10x20	12.5x20	12.5x25	16x31.5	18x35.5	18x42
1000	12.5x20	12.5x25	16x25	16x31.5			
2200	16x25	16x31.5	18x35.5				
3300	16x31.5	18x35.5					
4700	18x35.5						

Convert to inches, divide by 25.4

DxL(mm)



NOTE: Case Vent is standard on all diameter ≥8.0mm

LEAD INFORMATION VS. CASE DIAMETER

D	5.0	6.3	8.0	10.0	12.5	16.0	18.0
S	2.0	2.5	3.5	5.0	5.0	7.5	7.5
d	0.5	0.5	0.6	0.6	0.6	0.8	0.8
B	0.5	0.5	0.5	0.5	0.8	0.5	0.5

L_1=L+2.0 mm Max.
D_1=D+B Max.
S_1=S±0.5 mm Max.

BPS

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

STANDARD PART LISTING

Capacitance (µF)	WVDC	IC® PART NUMBER	Maximum ESR Ω 120Hz,+25°C	Maximum RMS Ripple Current (mA) 120Hz,+85°C	Dimensions DxL (mm)
0.47	50	**474BPS050M**	564.379	5	5x11
0.47	100	**474BPS100M**	352.737	10	5x11
1.0	50	**105BPS050M**	265.258	10	5x11
1.0	100	**105BPS100M**	165.786	18	5x11
2.2	50	**225BPS050M**	120.572	23	5x11
2.2	100	**225BPS100M**	75.357	30	6.3x11
3.3	50	**335BPS050M**	80.381	28	5x11
3.3	100	**335BPS100M**	50.238	35	6.3x11
4.7	50	**475BPS050M**	56.438	35	5x11
4.7	63	**475BPS063M**	42.328	37	5x11
4.7	100	**475BPS100M**	35.274	44	6.3x11
10	35	**106BPS035M**	23.210	46	5x11
10	50	**106BPS050M**	26.526	54	6.3x11
10	63	**106BPS063M**	19.894	58	6.3x11
10	100	**106BPS100M**	16.579	72	8x11.5
22	16	**226BPS016M**	16.579	60	5x11
22	35	**226BPS035M**	10.550	75	6.3x11
22	50	**226BPS050M**	12.057	90	8x11.5
22	63	**226BPS063M**	9.043	96	8x11.5
22	100	**226BPS100M**	7.536	138	10x16
33	16	**336BPS016M**	11.052	72	5x11
33	25	**336BPS025M**	10.048	82	6.3x11
33	50	**336BPS050M**	8.038	108	8x11.5
33	63	**336BPS063M**	6.029	135	10x12.5
33	100	**336BPS100M**	5.024	200	12.5x20
47	10	**476BPS010M**	8.466	82	5x11
47	25	**476BPS025M**	7.055	95	6.3x11
47	35	**476BPS035M**	4.938	120	8x11.5
47	50	**476BPS050M**	5.644	155	10x12.5
47	63	**476BPS063M**	4.233	185	10x16
47	100	**476BPS100M**	3.527	245	12.5x20
100	10	**107BPS010M**	3.979	125	6.3x11
100	25	**107BPS025M**	3.316	160	8x11.5
100	35	**107BPS035M**	2.321	230	10x16
100	50	**107BPS050M**	2.653	270	10x20
100	63	**107BPS063M**	1.989	325	12.5x20
100	100	**107BPS100M**	1.658	430	16x25
220	10	**227BPS010M**	1.809	215	8x11.5
220	16	**227BPS016M**	1.658	263	10x12.5
220	25	**227BPS025M**	1.507	305	10x16
220	35	**227BPS035M**	1.055	418	12.5x20
220	50	**227BPS050M**	1.206	490	12.5x25
220	63	**227BPS063M**	0.904	575	16x25
220	100	**227BPS100M**	0.754	650	18x35.5
330	16	**337BPS016M**	1.105	358	10x16
330	35	**337BPS035M**	0.703	520	12.5x20
330	50	**337BPS050M**	0.804	660	16x25
330	63	**337BPS063M**	0.603	655	16x31.5
330	100	**337BPS100M**	0.502	790	18x35.5
470	10	**477BPS010M**	0.847	410	10x16
470	16	**477BPS016M**	0.776	465	10x20
470	25	**477BPS025M**	0.705	550	12.5x20
470	35	**477BPS035M**	0.494	665	12.5x25
470	50	**477BPS050M**	0.564	850	16x31.5
470	63	**477BPS063M**	0.423	965	18x35.5
470	100	**477BPS100M**	0.353	1030	18x42
1,000	10	**108BPS010M**	0.398	725	12.5x20
1,000	16	**108BPS016M**	0.365	825	12.5x25
1,000	25	**108BPS025M**	0.332	965	16x25
1,000	35	**108BPS035M**	0.232	1160	16x31.5
2200	10	**228BPS010M**	0.211	1280	16x25
2200	16	**228BPS016M**	0.196	1460	16x31.5
2200	25	**228BPS025M**	0.181	1620	18x35.5
3300	10	**338BPS010M**	0.151	1590	16x31.5
3300	16	**338BPS016M**	0.141	1890	18x35.5
4700	10	**478BPS010M**	0.113	1990	18x35.5