



**THE DATASHEET OF
106BPA050M**





FEATURES

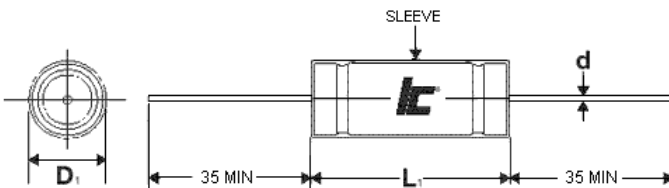
Small Size – Non/ Bi-Polar

APPLICATIONS

Audio Coupling – Crossover Networks

Operating Temperature Range		-40°C to +85°C										
Capacitance Tolerance		+20% at 120 Hz, 20°C										
Surge Voltage	WVDC	16	25	50	100							
	SVDC	20	32	63	125							
Dissipation Factor	WVDC	16	25	50	100							
	Tan δ	.22	.2	.14	.1							
Leakage Current		5 Minutes										
		.03CV or 3uA, Whichever is greater										
Low Temperature Stability Impedance Ratio (120 Hz)	WVDC	16	25	50	100							
	-25°C to 20°C	2	2	2	2							
	-40°C to +20°C	6	5	4	3							
Load Life		2000 hours at 85°C with rated WVDC and rated voltage reversed every 250 hours.										
		Capacitance Change	≤20% of initial measured value									
		Dissipation Factor	≤200% of maximum specified value									
		Leakage Current	≥100% of maximum specified value									
Shelf Life		1000 hours at 85°C with no voltage applied										
		Capacitance Change	≤20% of initial measured value									
		Dissipation Factor	≤200% of maximum specified value									
		Leakage Current	≥100% of maximum specified value									
Ripple Current Multipliers		Capacitance		Frequency (Hz)				Temperature (°C)				
		uF	50	120	400	1k	10k	50k	+85	+70	+60	+30
		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	1.3	1.45	1.49	1.0	1.3	1.5	1.8	

[Special Order Options](#)



D	6.3	8	10	13	16	18	22	25
d	0.6	0.6	0.6	0.6	0.8	0.8	0.8	0.8

$L_1 = L + 2.0\text{mm Max.}$

$D_1 = D + 0.5\text{ Max.}$

Asia

Phone: 852-2793-0931

Email: cdeasia@cde.com

Sep-21

Americas / EU
Phone: 1-508-996-8561
Email: cdena@cde.com



**CORNELL
DUBILIER**



BPA

+85°C, Bi-Polar/ Non-Polar,
2000 hrs

WVDC	Capacitance (µF)	IC PART NUMBER	Maximum ESR (Ω) 120 Hz, +20°C	Maximum RMS Ripple Current (mA) 120 Hz, +85°C	Dims DxL (mm)
16	47	476BPA016M	7.76	110	6.3x16
16	68	686BPA016M	5.364	155	8x16
16	100	107BPA016M	3.647	175	8x19
16	220	227BPA016M	1.658	290	10x19
16	330	337BPA016M	1.105	450	10x24
16	470	477BPA016M	0.776	565	10x30
16	1000	108BPA016M	0.365	950	13x31
25	15	156BPA025M	22.105	73	6.3x16
25	22	226BPA025M	15.072	88	6.3x16
25	33	336BPA025M	10.048	120	8x16
25	47	476BPA025M	7.055	140	8x16
25	68	686BPA025M	4.876	204	10x19
25	100	107BPA025M	3.316	235	10x19
25	150	157BPA025M	2.211	320	10x19
25	220	227BPA025M	1.507	390	10x24
25	330	337BPA025M	1.005	555	13x27
25	470	477BPA025M	0.706	665	13x31
50	0.47	474BPA050M	493.832	13	6.3x16
50	1	105BPA050M	232.101	19	6.3x16
50	2.2	225BPA050M	105.5	30	6.3x16
50	3.3	335BPA050M	70.334	37	6.3x16

WVDC	Capacitance (µF)	IC PART NUMBER	Maximum ESR (Ω) 120 Hz, +20°C	Maximum RMS Ripple Current (mA) 120 Hz, +85°C	Dims DxL (mm)
50	4.7	475BPA050M	49.383	46	6.3x16
50	10	106BPA050M	23.21	68	6.3x16
50	15	156BPA050M	15.47	98	8x16
50	22	226BPA050M	9.38	120	8x16
50	33	336BPA050M	7.033	145	8x19
50	47	476BPA050M	4.938	200	10x19
50	68	686BPA050M	3.413	260	10x24
50	100	107BPA050M	2.321	325	10x24
50	220	227BPA050M	1.055	600	13x31
50	330	337BPA050M	0.703	730	16x34
50	470	477BPA050M	0.494	860	16x39
100	1	105BPA100M	165.786	25	6.3x16
100	2.2	225BPA100M	75.358	36	6.3x16
100	3.3	335BPA100M	50.238	46	6.3x16
100	4.7	475BPA100M	35.274	55	6.3x16
100	10	106BPA100M	16.579	92	8x19
100	22	226BPA100M	7.538	155	10x19
100	33	336BPA100M	5.024	210	10x24
100	47	476BPA100M	3.527	285	13x27
100	100	107BPA100M	1.658	500	16x34

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