

PBM

+85°C Non-Polar 7mm Height Radial Lead Aluminum Electrolytic Capacitors



For all applications with unknown/reversing polarity

FEATURES

- Very small size
- Audio coupling crossover network
- Voltage range: 6.3 WVDC to 50 WVDC
- Capacitance range: .47 μ F to 100 μ F
- Solvent tolerant end seals standard

SPECIFICATIONS

Capacitance Tolerance		±20% at 120Hz, 20°C									
Operating Temperature Range		-40°C to + 85°C									
Dissipation Factor 120Hz, 20°C	WVDC	6.3	10	16	25	35	50				
	tan δ	.24	.20	.16	.16	.14	.12				
Impedance Ratio (Max.) @120Hz	WVDC	6.3	10	16	25	35	50				
	-25/ 20°C	4	3	2	2	2	2				
	-40/ 20°C	8	6	4	4	3	3				
Leakage Current	WVDC	50 WVDC									
	Time	2 minutes									
		.05 CV or 10 μA									
		whichever is greater									
Load Life		1,000 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)			
		50	120	400	1K	10K	100K	+85	+70	+60	+45
		.75	1.0	1.19	1.36	1.53	1.57	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



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STANDARD PART LISTING

Capacitance (μ F)	WVDC	ic [®] PART NUMBER	Maximum ESR 120Hz, +20°C	Maximum RMS Ripple Current (mA) 120Hz, +85°C	Dimensions DxL (mm)
0.47	50	474PBM050M	423.3	5	4x7
0.68	50	684PBM050M	292.6	6	4x7
1.0	50	105PBM050M	198.9	8	4x7
1.5	50	155PBM050M	132.6	10	4x7
2.2	50	225PBM050M	90.43	13	4x7
3.3	50	335PBM050M	60.29	18	4x7
4.7	35	475PBM035M	49.38	20	4x7
4.7	50	475PBM050M	42.33	25	5x7
6.8	16	685PBM016M	48.76	15	4x7
6.8	35	685PBM035M	34.13	22	5x7
6.8	50	685PBM050M	29.26	29	6.3x7

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

Capacitance (μ F)	WVDC	ic [®] PART NUMBER	Maximum ESR 120Hz, +20°C	Maximum RMS Ripple Current (mA) 120Hz, +85°C	Dimensions DxL (mm)
10.0	16	106PBM016M	33.16	27	4x7
10.0	35	106PBM035M	23.21	33	5x7
15.0	16	156PBM016M	22.10	29	5x7
15.0	35	156PBM035M	15.47	40	6.3x7
22.0	16	226PBM016M	15.07	47	5x7
22.0	25	226PBM025M	12.06	51	6.3x7
33.0	10	336PBM010M	12.06	50	5x7
33.0	16	336PBM016M	10.05	60	6.3x7
47.0	10	476PBM010M	8.47	64	6.3x7
68.0	6.3	686PBM6R3M	6.83	40	6.3x7
100.0	6.3	107PBM6R3M	4.64	50	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.

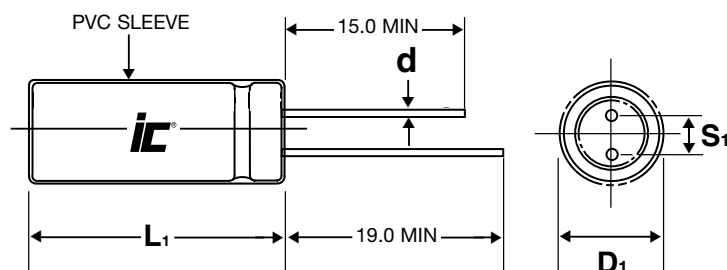
NOTE 8: ALL MEASUREMENTS ARE PERFORMED USING THE BRIDGE
METHOD.

PHYSICAL DIMENSIONS

WVDC (SV) (μ F)	6.3 (8)	10 (13)	16 (20)	25 (32)	35 (44)	50 (63)
.47						4x7
.68						4x7
1.0						4x7
1.5						4x7
2.2						4x7
3.3						4x7
4.7						5x7
6.8			4x7		5x7	6.3x7
10.0			4x7		5x7	
15.0			5x7		6.3x7	
22.0			5x7	6.3x7		
33.0		5x7	6.3x7			
47.0		6.3x7				
68.0	6.3x7					
100	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 $\pm$.5mm
D₁ = D+.5mm Max.