

# SOLID CAPACITOR

# PB Series

Aluminum Solid Electrolytic Capacitor  
With Conductive Polymer

JAMICON®

- Super low E.S.R. impedance and high heat resistance.
- Suitable for DC-DC converters, voltage regulators and decoupling applications used for computer motherboards etc.

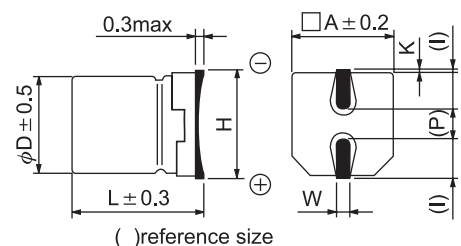


## ● SPECIFICATION

Item	Characteristic									
Operation Temperature Range	-55 ~ +105°C									
Rated Working Voltage	2.5 ~ 35V									
Capacitance Tolerance (120Hz 20°C)	±20%									
Leakage Current (2min)	The initial specified value in Characteristic list									
Surge Voltage (20°C)	W.V.	2.5	4	6.3	10	16	20	25	35	
	S.V.	2.8	4.6	7.2	11.5	18.4	23	28.7	40	
Tangent of loss angle (120Hz)	The initial specified value or loss (in Characteristic list)									
Impedance Ratio	Impedance ratio at 100kHz									
	Rated Voltage (V)	2.5	4	6.3	10	16	20	25	35	
	-55°C / +20°C	≤ 1.25								
	+105°C / +20°C	≤ 1.25								
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 2000 hours at 105°C									
	Capacitance Change	≤ ±20% of the initial measured value								
	Dissipation Factor	≤ 150% of the initial specified value								
	ESR	≤ 150% of the initial specified value								
	Leakage current	≤ initial specified value								
Bias Humidity Test	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjecting them to DC voltage at 60°C, 90 to 95% RH for 1000 hours									
	Capacitance Change	≤ ±20% of the initial measured value								
	Dissipation Factor	≤ 150% of the initial specified value								
	ESR	≤ 150% of the initial specified value								
	Leakage current	≤ initial specified value								
Surge Voltage Test	The capacitors shall be subjected to 1000 cycles each consisting of charge with the surge voltage specified at 105°C for 30 seconds through a protective resistor (R=1kΩ) and discharge for 5 minutes 30 seconds.									
	Capacitance Change	≤ ±20% of the initial measured value								
	Dissipation Factor	≤ 150% of the initial specified value								
	ESR	≤ 150% of the initial specified value								
	Leakage current	≤ initial specified value								
Failure Rate	1% per 1000 hours maximum (Confidence level 60% at 105°C)									

## ● DIMENSIONS (mm)

D	L	A	H	I	W	P	K
6.3	5.8	6.6	7.8MAX	2.6	0.65±0.1	2.1	0.35 <sup>+0.15</sup> <sub>-0.20</sub>
8	9	8.3	10MAX	3.4	0.9±0.2	3.1	0.70±0.20
8	10	8.3	10MAX	3.4	0.9±0.2	3.1	0.70±0.20
10	10	10	12MAX	3.5	0.9±0.2	4.6	0.70±0.20



● CASE SIZE & CHARACTERISTICS LIST

Rated Voltage (V.DC)	Rated Capacitance (μF)	Case size		Leakage Current (μA)	Tangent of loss angle (max)	E. S. R. at 100kHz (mΩ)	Allowable ripple current (mA.rms)	Part Number
		φD	L					
		(mm)						
2.5	390	6.3	5.8	195	0.06	15	3400	PBM391M0EE05W
	1500	8.0	10.2	750	0.06	10	5220	PBM152M0EF10W
	2200	10.0	10.2	1100	0.06	10	5400	PBM222M0EG10W
4	270	6.3	5.8	216	0.06	15	3200	PBM271M0GE05W
	330	6.3	5.8	264	0.06	15	3300	PBM331M0GE05W
	1000	8.0	10.2	800	0.06	10	5220	PBM102M0GF10W
	1200	10.0	10.2	960	0.06	10	4900	PBM122M0GG10W
	1500	10.0	10.2	1200	0.06	10	5000	PBM152M0GG10W
	1800	10.0	10.2	1440	0.06	10	5300	PBM182M0GG10W
6.3	220	6.3	5.8	277	0.06	15	3200	PBM221M0JE05W
	820	8.0	10.2	1033	0.06	12	4770	PBM821M0JF10W
	1200	10.0	10.2	1512	0.06	12	4700	PBM122M0JG10W
	1500	10.0	10.2	1890	0.06	12	4800	PBM152M0JG10W
10	120	6.3	5.8	240	0.06	25	2500	PBM121M1AE05W
	220	8.0	9.0	440	0.06	20	3300	PBM221M1AF09W
	390	8.0	10.2	780	0.06	17	4000	PBM391M1AF10W
	680	10.0	10.2	1360	0.06	13	4600	PBM681M1AG10W
16	68	6.3	5.8	218	0.06	28	2300	PBM680M1CE05W
	82	8.0	9.0	262	0.06	14	3200	PBM820M1CF09W
	100	8.0	9.0	320	0.06	14	3700	PBM101M1CF09W
	120	8.0	9.0	384	0.06	14	3700	PBM121M1CF09W
	180	8.0	10.2	576	0.06	18	3890	PBM181M1CF10W
	220	8.0	10.2	704	0.06	18	3890	PBM221M1CF10W
	330	10.0	10.2	1056	0.06	16	4100	PBM331M1CG10W
20	22	6.3	5.8	88	0.06	50	1700	PBM220M1DE05W
	120	10.0	10.2	480	0.06	35	2800	PBM121M1DG10W
25	6.8	6.3	5.8	34	0.06	60	1200	PBM6R8M1EE05W
	33	8.0	9.0	165	0.06	24	3200	PBM330M1EF09W
	47	10.0	10.2	235	0.06	30	3000	PBM470M1EG10W
35	22	8.0	9.0	154	0.06	30	3000	PBM220M1VF09W