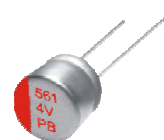


PB

Radial Lead Type, Ultra-low ESR Series

- Ultra-Low ESR, High ripple current.
- Load life of 2000 hours at 105°C.
- Radial lead type: lead free flow soldering condition correspondence.
- RoHS Compliance(2011/65/EU)



SPECIFICATIONS

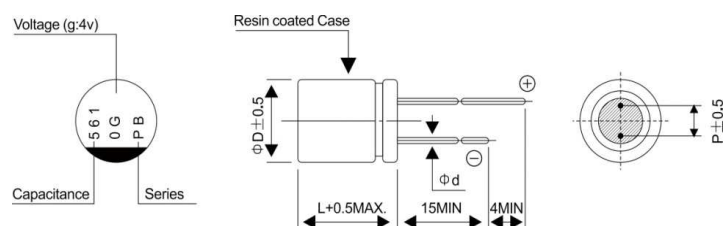
Item	Performance Characteristics	
Category Temperature Range	-55 ~ +105°C	
Rated Voltage Range	2.5 ~ 16V	
Rated Capacitance Range	270 to 1500μF	
Capacitance Tolerance	± 20 % (at 120Hz , 20°C)	
Tangent of loss angle (tan δ)	Less than or equal to the specified value at 120Hz, 20°C	
ESR(※1)	Less than or equal to the specified value at 100KHz, 20°C	
Leakage Current(※2)	Less than or equal to the specified value. After 2 minutes' application of rated voltage at 20°C	
Temperature Characteristics (Max. Impedance Ratio)	Z+105°C / Z+20°C ≤ 1.25 (100kHz) Z- 55°C / Z+20°C ≤ 1.25	
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20 °C after the rated voltage is applied for 2000 hours at 105 °C	Capacitance change Within ±20% of the initial capacitance value(※3)
	The specifications listed at right shall be met when the capacitors are restored to 20 °C after the rated voltage is applied for 1000 hours at 60 °C, 90% RH. After soldering the capacitor under the soldering conditions prescribed here as preheat at 150 to 200°C for 60 to 180 seconds and peak temperature at 265°C for 10 seconds or less, the capacitor shall meet the specifications listed at right, provided that its temperature profile is measured at both of terminal ends facing the soldering side.	tan δ 150% or less than the initial specified value ESR(※1) 150% or less than the initial specified value Leakage current(※2) less than or equal to the initial specified value
Damp Heat (Steady State)	The specifications listed at right shall be met when the capacitors are restored to 20 °C after the rated voltage is applied for 1000 hours at 60 °C, 90% RH. After soldering the capacitor under the soldering conditions prescribed here as preheat at 150 to 200°C for 60 to 180 seconds and peak temperature at 265°C for 10 seconds or less, the capacitor shall meet the specifications listed at right, provided that its temperature profile is measured at both of terminal ends facing the soldering side.	Capacitance change Within ±20% of the initial capacitance value(※3)
		tan δ 150% or less than the initial specified value ESR(※1) 150% or less than the initial specified value Leakage current(※2) less than or equal to the initial specified value
Resistance to Soldering Heat		Capacitance change Within ±10% of the initial capacitance value(※3)
		tan δ 130% or less than the initial specified value ESR(※1) 130% or less than the initial specified value Leakage current(※2) less than or equal to the initial specified value
Marking	Red print on the case top	

※1 ESR should be measured at both of the terminal ends closest to the capacitor body.

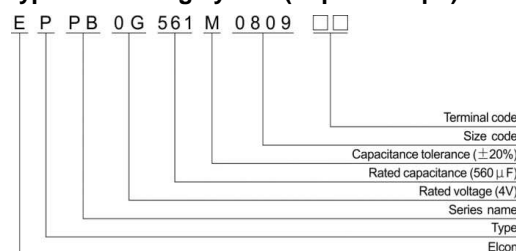
※2 Conditioning: If any doubt arises, measure the leakage current after the voltage treatment of applying DC rated voltage continuously to the capacitor for 120 minutes at 105 °C

※3 Initial value: The value before test of examination of resistance to soldering.

Dimensions



Type numbering system(Exp:4V 560μF)



		Φ x L(mm)	
Size	6.3x8	6.3x11	8x8
ΦD	6.3	6.3	8.0
L	7.5	10.5	7.5
P	2.5	2.5	3.5
Φd	0.6	0.6	0.6

		Voltage				
V	2.5	4	6.3	10	16	
Code	0E	0G	0J	1A	1C	

PB

Series

■STANDARD RATINGS

Rated voltage (V)(code)	Surge Voltage (V)	Rated Cpacity (μF)	Case Size ΦD x L(mm)	tan δ	Leakage Current (μA)	ESR(mΩ) (at 100kHz 20℃)	Rated Ripple (mArms)	Part Number
2.5 (0E)	2.8	560	6.3x8	0.08	280	7	5900	EPPB0E561M6308
		820	6.3x8	0.08	410	7	5900	EPPB0E821M6308
		1000	6.3x8	0.08	500	7	5900	EPPB0E102M6308
		1500	8X8	0.08	750	7	6100	EPPB0E152M0808
4 (0G)	4.6	560	6.3x8	0.08	448	9	5900	EPPB0G561M6308
		680	6.3x8	0.08	544	9	5900	EPPB0G681M6308
		820	6.3x11	0.08	656	7	6150	EPPB0G821M6311
		1000	6.3x11	0.08	800	7	6150	EPPB0G102M6311
		1200	6.3x11	0.08	960	7	6150	EPPB0G122M6311
		330	6.3x7	0.08	416	9	5150	EPPB0J331M6307
		470	6.3x8	0.08	592	9	5900	EPPB0J471M6308
		680	6.3x8	0.08	857	9	5900	EPPB0J681M6308
6.3 (0J)	7.2	820	6.3x9	0.08	1033	7	6150	EPPB0J821M6309
		1000	6.3x11	0.08	1260	6	6150	EPPB0J102M6311
		1000	8X8	0.08	1260	7	6350	EPPB0J102M0808
		1500	8X12	0.08	1890	6	6500	EPPB0J152M0812
		270	6.3x8	0.08	540	10	4100	EPPB1A271M6308
		330	6.3x8	0.08	660	10	4100	EPPB1A331M6308
		470	8X8	0.08	940	10	5600	EPPB1A471M0808
		560	8X8	0.08	1120	9	5600	EPPB1A561M0808
10 (1A)	11.5	680	8X12	0.08	1360	9	6100	EPPB1A681M0812
		820	8X12	0.08	1640	8	6100	EPPB1A821M0812
		1000	8X12	0.08	2000	7	6100	EPPB1A102M0812
		270	6.3X8	0.08	864	10	4100	EPPB1C271M6308
		330	6.3X12	0.08	1056	10	4500	EPPB1C331M6312
		470	6.3X12	0.08	1504	10	4650	EPPB1C471M6312
		470	8X12	0.08	1504	10	5400	EPPB1C471M0812
		680	8X12	0.08	2176	10	5400	EPPB1C681M0812
16 (1C)	18.4	820	8X12	0.08	2624	9	5400	EPPB1C821M0812
		1000	8X12	0.08	3200	8	5400	EPPB1C102M0812