

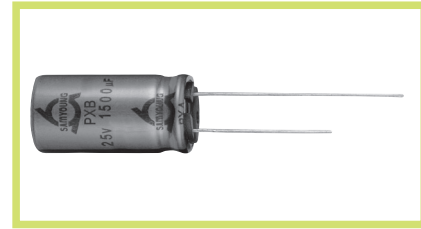
PXB Series

• 125°C 3,000~5,000Hrs assured.

Solvent-proof

WV ≤ 80V_{DC}

- Low impedance.
- Wide Temperature range.
- Long Life.
- Suitable to fit for automotive equipment.
- RoHS compliant.
- Halogen-free capacitors are also available.



• AEC-Q200 compliant : Please contact us for more details, test data, information.

SPECIFICATIONS

Item	Characteristics									
Rated Voltage Range	10 ~ 100 V _{DC}		160 ~ 400 V _{DC}		450 V _{DC}					
Operating Temperature Range	-40 ~ +125°C		-40 ~ +125°C		-25 ~ +125°C					
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)									
Leakage Current	I=0.03CV (μA) or 4μA, whichever is greater.		CV≤1,000		CV > 1,000					
			I=0.1CV+40		I=0.04CV+100					
Where, I : Max. Leakage current (μA) C: Nominal capacitance (μF)V: Rated voltage(V _{DC}) (at 20°C, 1 minute)										
Dissipation Factor(Tan δ)	Rated voltage(V _{DC})	10	16	25	35	50~63	80~100	160~250	350~450	
	Tanδ(Max.)	0.20	0.16	0.14	0.12	0.10	0.08	0.20	0.24	
When the capacitance exceeds 1,000μF, 0.02 shall be added every 1,000μF increase. (at 20°C, 120Hz)										
Temperature Characteristics (Max. Impedance ratio)	Rated Voltage(V _{DC})	10	16~35	50~80	100	160~250	350~400	450		
	Z(-25°C)/Z(+20°C)	3	2	3	3	3	6	6		
	Z(-40°C)/Z(+20°C)	6	4	5	6	6	10	-		
(at 120Hz)										
Load Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied at 125°C. Capacitance change ≤ ±30% of the initial value (where, ±20% for ≥ WV 160V _{DC}) Tanδ ≤ 300% of the initial specified value (where, 200% for ≥ WV 160V _{DC}) Leakage current ≤ The initial specified value					ø D			10~100V	160~450V
						ø 8		3,000 hours	5,000 hours	
ø 10~		5,000 hours								
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 125°C without voltage applied. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at least 24 hours and not more than 48 hours before the measurements.									
	Capacitance change ≤ ±30% of the initial value (where, ±20% for ≥ WV 160V _{DC}) Tanδ ≤ 300% of the initial specified value (where, 200% for ≥ WV 160V _{DC}) Leakage current ≤ The initial specified value (where, 500% for ≥ WV 160V _{DC})									
Others	Satisfied characteristics KS C IEC 60384-4									

DIMENSIONS OF PXB Series

Unit(mm)

030000

Technical drawing of a capacitor assembly. The side view shows a cylindrical body with a 'Safety vent' on the left and a 'Sleeve' on the right. The length of the body is labeled L' . The diameter of the body is $\varnothing D'$. The diameter of the sleeve is $\varnothing d \pm 0.05$. The distance from the end of the body to the start of the sleeve is 15 min. . The distance from the end of the sleeve to the end of the body is 4 min. . The end view shows a circular cross-section with a diameter of $\varnothing 10$. The side view shows a circular cross-section with a diameter of $\varnothing 12.5$. The distance from the center of the body to the center of the sleeve is $F \pm 0.5$.

Marking : GREEN SLEEVE, BLACK INK

$\varnothing D$	8	10	12.5	16
$\varnothing d$	0.6	0.6	0.6	0.8
F	3.5	5.0	5.0	7.5
$\varnothing D'$	$\varnothing D + 0.5 \text{ max.}$			
L'	$L + 1.5 \text{ max.}$	$L + 2.0 \text{ max.}$		



MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

RATINGS OF PXB Series

V _{DC}	10			16			25			35		
Items μF	ø D × L (mm)	Imp. ($\varnothing$ max.)	Rated Ripple Current (mA rms)	ø D × L (mm)	Imp. ($\varnothing$ max.)	Rated Ripple Current (mA rms)	ø D × L (mm)	Imp. ($\varnothing$ max.)	Rated Ripple Current (mA rms)	ø D × L (mm)	Imp. ($\varnothing$ max.)	Rated Ripple Current (mA rms)
		(20°C, 100kHz)	(125°C, 100kHz)		(20°C, 100kHz)	(125°C, 100kHz)		(20°C, 100kHz)	(125°C, 100kHz)		(20°C, 100kHz)	(125°C, 100kHz)
100										10 × 12.5	0.25	480
220				10 × 12.5	0.25	480	10 × 12.5	0.25	480	10 × 16	0.15	625
330	10 × 12.5	0.25	480	10 × 12.5	0.25	480	10 × 16	0.15	625	10 × 20	0.11	799
470	10 × 12.5	0.25	480	10 × 16	0.15	625	10 × 20	0.11	799	12.5 × 20	0.068	997
1,000	10 × 20	0.11	799	12.5 × 20	0.068	997	12.5 × 25	0.058	1,121	16 × 25	0.040	1,426
2,200	12.5 × 25	0.058	997	16 × 25	0.040	1,426	16 × 31.5	0.034	1,595			
3,300	16 × 25	0.040	1,426	16 × 31.5	0.034	1,595						
4,700	16 × 31.5	0.034	1,595									

V _{DC}	50			63			80			100		
Items μF	ø D × L (mm)	Imp. ($\varnothing$ max.)	Rated Ripple Current (mA rms)	ø D × L (mm)	Imp. ($\varnothing$ max.)	Rated Ripple Current (mA rms)	ø D × L (mm)	Imp. ($\varnothing$ max.)	Rated Ripple Current (mA rms)	ø D × L (mm)	Imp. ($\varnothing$ max.)	Rated Ripple Current (mA rms)
		(20°C, 100kHz)	(125°C, 100kHz)		(20°C, 100kHz)	(125°C, 100kHz)		(20°C, 100kHz)	(125°C, 100kHz)		(20°C, 100kHz)	(125°C, 100kHz)
22										10 × 12.5	0.94	440
33							10 × 12.5	0.80	480	10 × 12.5	0.94	440
47				10 × 12.5	0.80	480	10 × 12.5	0.80	480	10 × 16	0.68	600
100	10 × 12.5	0.25	480	10 × 16	0.58	650	10 × 20	0.39	790	12.5 × 20	0.32	870
220	10 × 20	0.15	625	12.5 × 20	0.27	950	12.5 × 25	0.18	1,240	16 × 25	0.14	1,320
330	12.5 × 20	0.081	990	12.5 × 25	0.18	1,240	12.5 × 30	0.16	1,390	16 × 31.5	0.12	1,400
470	12.5 × 25	0.070	1,150	12.5 × 30	0.16	1,390	16 × 25	0.11	1,500			
1,000	16 × 31.5	0.032	1,590	16 × 31.5	0.090	1,650						

V _{DC}	160		200		250		350		400		450	
Items μF	ø D × L (mm)	Rated Ripple Current (mA rms)	ø D × L (mm)	Rated Ripple Current (mA rms)	ø D × L (mm)	Rated Ripple Current (mA rms)	ø D × L (mm)	Rated Ripple Current (mA rms)	ø D × L (mm)	Rated Ripple Current (mA rms)	ø D × L (mm)	Rated Ripple Current (mA rms)
		(125°C, 120Hz)		(125°C, 120Hz)		(125°C, 120Hz)		(125°C, 120Hz)		(125°C, 120Hz)		(125°C, 120Hz)
4.7									10 × 12.5	65		
6.8			8 × 15	71			8 × 15	75	10 × 16	86	10 × 16	80
10			8 × 15	86	10 × 12.5	91	10 × 16	105	10 × 20	112	10 × 20	108
15	8 × 15	108	10 × 12.5	110	10 × 16	115	10 × 20	139	12.5 × 20	153	12.5 × 20	150
22	10 × 12.5	135	10 × 20	159	12.5 × 20	167	12.5 × 25	204	12.5 × 25	202	16 × 25	242
	10 × 16	151							12.5 × 30	217		
33	10 × 20	204	12.5 × 20	216	12.5 × 25	223	16 × 25	276	16 × 25	273	16 × 31.5	321
47	12.5 × 20	242	12.5 × 25	281	16 × 25	294	16 × 31.5	355	16 × 31.5	351		
68	12.5 × 25	317	16 × 20	348	16 × 31.5	381						
100	16 × 25	424	16 × 25	452								
150	16 × 31.5	481										

RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

(10 ~ 100V_{DC})

Cap. (μF)	120	1k	10k	50k	100k
1 ~ 100	0.40	0.75	0.90	0.93	1.00
220 ~ 470	0.50	0.85	0.94	0.96	1.00
1,000	0.60	0.87	0.95	0.97	1.00
2,200 ~ 3,300	0.75	0.90	0.95	0.97	1.00
4,700	0.85	0.95	0.98	0.99	1.00

(160 ~ 450V_{DC})

Cap. (μF)	120	1k	10k	50k	100k
4.7 ~ 33	1.00	1.50	1.75	1.76	1.80
47 ~ 150	1.00	1.30	1.40	1.43	1.50