

# KNSCHA (Super Smal Bimetallii Capacitor) 双金属电容器替代固态电解电容

## KNSCHA PB Series (High Reliability, Super Small,) Radial Lead Type, Ultra-low ESR

- Ultra-Low ESR, High ripple current.
- Load life of 5000 hours at 105°C.
- Radial lead type: lead free flow soldering condition correspondence.
- RoHS Compliance (2011/65/EU)



### SPECIFICATIONS

Table-1

Items	Conditions	Characteristics	
Category temperature range	-	-55°C to +105°C	
Tolerance on reted capacitance	120Hz	M: ±20%	
Tangent of less angle	120Hz	Less than or equal to the value of Table-3	
Leakage Current	After 2 minites	Less than or equal to the value of Table-3	
ESR	-	Less than or equal to the value of Table-3	
Characteristics of impedance ratio at high temp. and low temp.	Based the value at 100KHz, +20°C	~ -55°C	Z/Z20°C ≤ 1.25 Ω / 100Khz
High Temp Load Test	105°C Rated voltage applied 5000H	Δ C/C	Within ±20%
		Tan- δ	≤150 %of the initial measured value
		ESR	150% or less than the initial specified value
		Leakage Current	Leakage current less than or equal to the initial specified value
High Temp Non- Load Test	105°C Rated voltage applied 1000H	Δ C/C	Within ±20%
		Tan- δ	≤150of the initial measured value
		ESR	150% or less than the initial specified value
		Leakage Current	Leakage current less than or equal to the initial specified value
Resistance toSoldering Heat	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.	Δ C/C	Within ±20%
		Tan- δ	≤130 %of the initial measured value
		ESR	150% or less than the initial specified value
		Leakage Current	Leakage current less than or equal to the initial specified value

### Dimensions

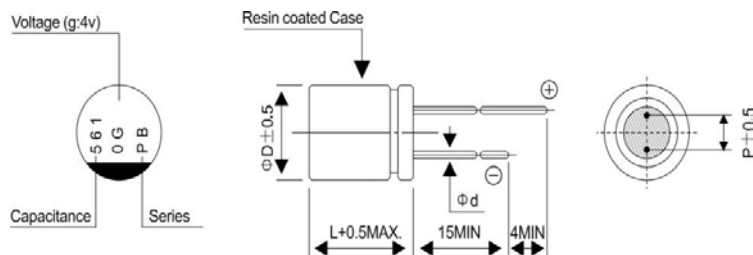


Table-2

Unit:(mm)

Size code	D±0.5	F±0.5	d±0.05
8L	5.0	2.0	0.50
9L	6.3	2.5	0.60
11L	6.3	2.5	0.60
8L	8.0	3.5	0.60
11L	8.0	3.5	0.60
12.5L	10.0	5.0	0.60

Φ5mm d=0.50mm

6.3mm/8mm: d=0.60mm

Φ10mm d=0.60mm

Table-3 KNSCHA PB Serise Characteristics List

Size Code	Rated Voutage (V)	Rated Capacitance (μ F)	ESR 100KHz / 20°C (mΩ max)	Rated ripple current 100KHz/105°C(mA.rms)	Tangent of loss angle (max)/120Hz	Leakage current (μ A) (max)/2min
5*8	6.3	270	7.5	3980	0.08	340
5*8		330	7.5	4400	0.08	415
6.3*8		330	7.5	4800	0.08	415
6.3*8		470	8.0	5800	0.08	592
6.3*8		560	8.0	5900	0.08	705
6.3*8		680	8.0	5900	0.08	856
6.3*9		820	9.0	6100	0.08	1033
8*8		1000	9.0	6300	0.08	1260
8*8	16	270	10	5000	0.08	864
8*8		330	10	5000	0.08	1056
8*11		470	10	5400	0.08	1504
8*11		560	10	5400	0.08	1792
8*11		680	10	5400	0.08	2176
8*12		820	10	5700	0.08	2624
10*12.5		1000	10	6000	0.08	3200