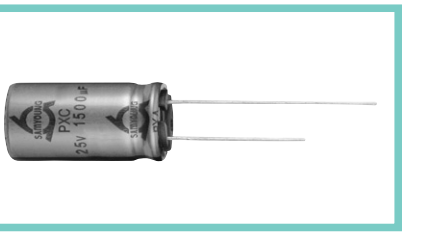
PXC Series

• 125℃ 3,000~5,000Hrs assured.

- Low impedance.
- Wide Temperature range.
- Long Life
- For ECU, BLU, Cooling fan
- RoHS compliant.

PXB → PXC

Low Imp.

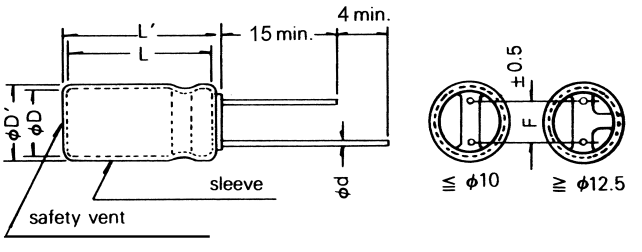


SPECIFICATIONS

Item	Characteristics
Rated Voltage Range	10 ~ 50 V_{DC}
Operating Temperature Range	-40 ~ +125℃
Capacitance Tolerance	±20% (M)
Leakage Current	I=0.03CV (㎂) or 4㎂, whichever is greater Where, I : Max. leakage current (㎂) C: Nominal capacitance (㎌)V: Rated voltage(V_{DC}) (at 20℃, 1 minute)
Dissipation Factor (Tan δ)	Rated voltage(V_{DC}) 10 / 16 / 25 / 35 / 50 Tanδ(Max.) 0.20 / 0.16 / 0.14 / 0.12 / 0.10 When the capacitance exceeds 1.000㎌, 0.02 shall be added every 1.000㎌ increase. (at 20℃, 120Hz)
Temperature Characteristics (Max. Impedance ratio)	Rated Voltage(V_{DC}) 10 / 16~35 / 50 Z(-25℃)/Z(+20℃) 3 / 2 / 3 Z(-40℃)/Z(+20℃) 6 / 4 / 5 (at 120Hz)
Load Life	The following specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage is applied for 5,000 hours at 125℃. (where, 3,000 hours ≦ Ø8) Capacitance change ≦ ±30% of the initial value Tanδ ≦ 300% of the initial specified value Leakage current ≦ The initial specified value
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1,000 hours at 125℃ 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 measurement. (where, 500 Hours ≦ Ø8) Capacitance change ≦ ±30% of the initial value Tanδ ≦ 300% of the initial specified value Leakage current ≦ The initial specified value
Others	Satisfied characteristics W of KS C 6421

DIMENSIONS OF PXC Series

Unit (mm)



Marking : GREEN SLEEVE, BLACK INK

ØD	8	10	12.5	16
Ød	0.6	0.6	0.6	0.8
F	3.5	5.0	5.0	7.5

ØD=8, ØD' ≦+0.5, L' ≦L+1.5

ØD〉8, ØD' ≦+0.5, L' ≦L+2.0

RATINGS OF PXC Series

WVDC	10(1A)			16(1C)		
Items / μF	ØD×L (mm)	Imp. (Ω max.) (20℃,100kHz)	Rated Ripple Current (mArms) (125℃,100kHz)	ØD×L (mm)	Imp. (Ω max.) (20℃,100kHz)	Rated Ripple Current (mArms) (125℃,100kHz)
100				8×11.5	0.32	340
220	8×11.5	0.32	340	10×12.5	0.15	620
330	10×12.5	0.15	620	10×12.5	0.15	620
470	10×12.5	0.15	620	10×16	0.094	790
1,000	10×20	0.075	950	12.5×20	0.058	1,080
2,200	12.5×25	0.040	1,350	16×25	0.031	1,620
3,300	16×25	0.031	1,620	16×31.5	0.025	1,860
4,700	16×31.5	0.025	1,860			

WVDC	25(1E)			35(1V)		
Items / μF	ØD×L (mm)	Imp. (Ω max.) (20℃,100kHz)	Rated Ripple Current (mArms) (125℃,100kHz)	ØD×L (mm)	Imp. (Ω max.) (20℃,100kHz)	Rated Ripple Current (mArms) (125℃,100kHz)
100	8×11.5	0.32	340	8×11.5	0.32	340
				10×12.5	0.15	620
220	10×12.5	0.15	620	10×16	0.094	790
330	10×16	0.094	790	10×20	0.075	950
470	10×20	0.075	950	12.5×20	0.058	1,080
1,000	12.5×25	0.075	1,350	16×25	0.031	1,620
2,200	16×31.5	0.025	1,860			

WVDC	50(1H)		
Items / μF	ØD×L (mm)	Imp. (Ω max.) (20℃,100kHz)	Rated Ripple Current (mArms) (125℃,100kHz)
10	8×11.5	0.40	200
22	8×11.5	0.40	280
33	8×11.5	0.40	300
47	8×11.5	0.40	300
100	10×12.5	0.20	520
220	10×20	0.098	880
330	12.5×20	0.080	1,000
470	12.5×25	0.055	1,250
1,000	16×31.5	0.029	1,650

RATED RIPPLE CURRENT MULTIPLIERS

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