

PX Series

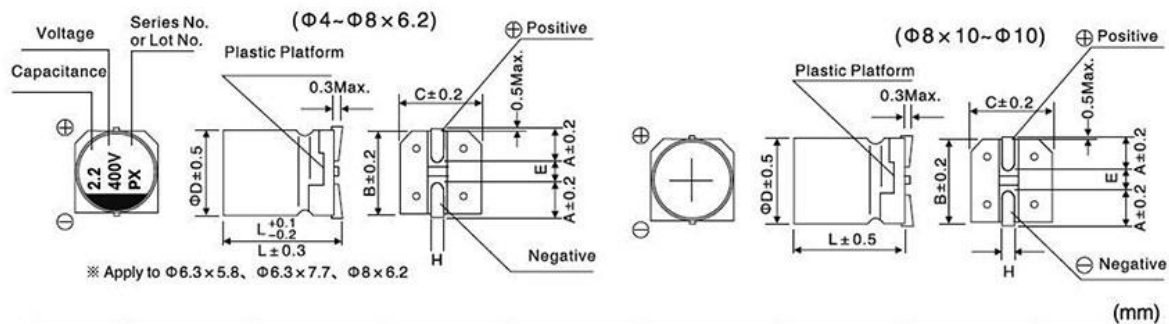
- Chip type, Designed for surface mounting on high density PC board
- Wide temperature range from -55°C to +105°C
- Suitable for the automotive electrical parts and lighting equipment etc.
- Life time: +105°C 2000 hours
- RoHs Compliant



◆ SPECIFICATIONS

Items	Characteristics													
Category	-55℃ to +105℃(6.3 to 100Vdc) -40℃ to +105℃(160 to 400Vdc)													
Temperature Range														
Rated Voltage Range	6.3 to 400Vdc													
Capacitance Tolerance	±20%(M) (at 20℃, 120Hz)													
Leakage Current	6.3 to 100Vdc : I≤0.03CV							160 to 400Vdc : I≤0.04CV +100μA						
	Where, I: Max. leakage current (μA), C: Nominal capacitance (μF), V: Rated voltage(V) (at 20℃ after 1 minutes)													
Dissipation Factor (tan δ)	Rated Voltage (Vdc)	6.3	10	16	25	35	50	63	100	160	200	250	400	(at 20℃, 120Hz)
	tanδ(Max.)	0.22	0.19	0.16	0.14	0.12	0.10	0.10	0.08	0.20	0.20	0.20	0.25	
Low Temperature Characteristics (Max. Impedance Ratio)	Rated Voltage (Vdc)	6.3	10	16	25	35	50	63	100	160	200	250	400	(at 120Hz)
	Z(-55℃)/Z(+20℃)	4	4	3	3	3	3	3	4	-	-	-	-	
	Z(-40℃)/Z(+20℃)	-	-	-	-	-	-	-	-	-	6	6	6	
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to the rated voltage is applied for 2000 hours(160 to 400V: 3000 hours) at 105℃.													
	Capacitance change	≤±20% of the initial value.												
	D.F. (tan δ)	≤200% of the initial specified value.												
	Leakage current	≤ The initial specified value.												
Shelf Life	The following specifications shall be satisfied when the capacitors performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20℃ after exposing them for 1000hours at 105℃ without voltage applied.													
	Capacitance change	≤±20% of the initial value.												
	D.F. (tan δ)	≤200% of the initial specified value.												
	Leakage current	≤The initial specified value.												

◆ DIMENSIONS [mm]



PX Series

◆ STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	tan δ	Ripple current mAmps/105°C, 120Hz
6.3(0J)	220	8×10	0.22	161
	330	8×10	0.22	288
	470	10×10	0.22	340
	680	10×10	0.22	408
	1000	10×10	0.22	495
10(1A)	100	8×6.2	0.19	90
	220	8×10	0.19	173
	330	10×10	0.19	318
	470	10×10	0.19	351
	680	10×10	0.19	392
16(1C)	100	8×6.2	0.16	148
	220	8×10	0.16	330
	330	10×10	0.16	441
	470	10×10	0.16	489
25(1E)	47	8×6.2	0.14	79
	100	8×10	0.14	181
	220	10×10	0.14	351
	330	10×10	0.14	372
35(1V)	33	8×6.2	0.12	76
	47	8×10	0.12	124
	100	10×10	0.12	304
	220	10×10	0.12	450
50(1H)	22	8×6.2	0.10	67
	33	8×10	0.10	133
	47	10×10	0.10	180
	100	10×10	0.10	310
63(1J)	10	8×6.2	0.10	51
	22	8×10	0.10	108
	33	10×10	0.10	185
	47	10×10	0.10	220
	100	10×10	0.10	320

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	tan δ	Ripple current mAmps/105°C, 120Hz
100(2A)	4.7	8×6.2	0.08	42
	10	8×10	0.08	75
	22	10×10	0.08	150
	33	10×10	0.08	180
	47	10×10	0.08	230
160(2C)	10	8×10	0.20	57
	18	10×10	0.20	64
200(2D)	3.3	8×10	0.20	31
	3.9	8×10	0.20	34
	4.7	8×10	0.20	37
	6.8	8×10	0.20	44
	10	10×10	0.20	64
250(2E)	3.3	8×10	0.20	31
	3.9	8×10	0.20	34
	4.7	8×10	0.20	37
	6.8	8×10	0.20	44
	10	10×10	0.20	64
400(2G)	1	8×10	0.25	25
	1.8	8×10	0.25	26
	2.2	8×10	0.25	27
	3.3	10×10	0.25	38
	3.9	10×10	0.25	39
	4.7	10×10	0.25	40

◆ RATED RIPPLE CURRENT MULTIPLIERS

Frequency correction factor for ripple current

Cap. (μF) \ Freq. (Hz)	50	120	300	1k	10k or more
1 to 47	0.80	1.00	1.15	1.40	1.67
100 to 1000	0.85	1.00	1.08	1.20	1.30