ELCON

Conductive Polymer Aluminum Solid Electrolytic Capacitors

PX

Radial Lead Type, Long Life Assurance Series

- Ultra-Low ESR, High ripple current.
- Load life of 20000 hours at 105℃.
- Radial lead type: Lead free flow soldering condition correspondence.
- RoHS Compliance (2011/65/EU)

■ SPECIFICATIONS

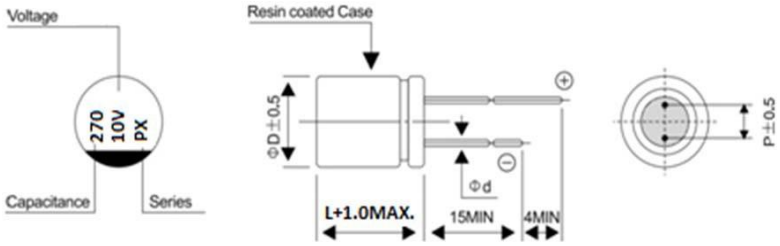
Items	Performance Characteristics		
Category Temperature Range	-55 ~ +105℃		
Rated Voltage Range	4 ~ 16V		
Rated Capacitance Range	100 ~ 1200μF		
Capacitance Tolerance	± 20 % (at 120Hz , 20℃)		
Tangent of Loss Angle (tan δ)	Less than or equal to the specified value at 120Hz, 20℃		
ESR (※1)	Less than or equal to the specified value at 100KHz, 20℃		
Leakage Current (※2)	Less than or equal to the specified value. After 2 minutes' application of rated voltage at 20℃		
Temperature Characteristics (Max. Impedance Ratio)	Z+105℃ / Z+20℃ ≤1.25 (100kHz) Z- 55℃ / Z+20℃ ≤1.25		
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20 ℃ after the rated voltage is applied for 20,000 hours at 105 ℃.	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
Damp Heat (Steady State)	The specifications listed at right shall be met when the capacitors are restored to 20 ℃ after the rated voltage is applied for 1,000 hours at 60 ℃, 90% RH.	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	After soldering the capacitor under the soldering conditions prescribed here as preheat at 150 to 200℃ for 60 to 180 seconds and peak temperature at 265℃ 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 ±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 ℃

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

■ Dimensions



Φ x L(mm)

Size	6.3x9	6.3x10.5	8x7	8x9	8x12	10x13
ΦD	6.3	6.3	8.0	8.0	8.0	10.0
L	9	10.5	7	9	12	13
P	2.5	2.5	3.5	3.5	3.5	5.0
Φd	0.6	0.5	0.6	0.6	0.6	0.6

Type numbering system (Ex.: 10V 270μF)

E P PX 1A 271 M 0812 □□

- Terminal code
- Size code
- Capacitance tolerance (±20%)
- Rated capacitance (270μF)
- Rated voltage (10V)
- Series name
- Type
- Elcon

Voltage

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

PX Series

■ STANDARD RATINGS

Rated Voltage (V)(Code)	Surge Voltage (V)	Rated Capacitance (μF)	Case Size ΦD x L(mm)	tan δ	Leakage Current (μA)	ESR (mΩ) max. (100kHz, 20℃)	Rated Ripple Current (mA rms)	Part Number
4 (0G)	4.6	270	6.3 x 9	0.08	216	8	4800	EPPX0G271M6309
		560	8 x 7	0.08	448	15	3900	EPPX0G561M0807
		560	8 x 9	0.08	448	7	5200	EPPX0G561M0809
		680	8 x 12	0.08	544	7	5800	EPPX0G681M0812
		1200	10 x 13	0.08	960	8	5500	EPPX0G122M1013
6.3 (0J)	7.2	330	6.3 x 10.5	0.08	416	20	3000	EPPX0J331M6310
		390	8 x 7	0.08	491	15	3900	EPPX0J391M0807
		470	8 x 12	0.08	592	7	5500	EPPX0J471M0812
		560	6 x 9	0.08	706	9	4300	EPPX0J561M0609
		560	8 x 9	0.08	706	8	5000	EPPX0J561M0809
		820	10 x 13	0.08	1033	8	5500	EPPX0J821M1013
10 (1A)	11.5	150	6.3 x 10.5	0.08	300	20	3000	EPPX1A151M6310
		270	8 x 12	0.08	540	8	4900	EPPX1A271M0812
		470	10 x 13	0.08	940	8	5500	EPPX1A471M1013
16 (1C)	18.4	100	6.3 x 1 0.5	0.08	320	24	2800	EPPX1C101M6310
		270	8 x 12	0.08	864	9	4500	EPPX1C271M0812
		330	10 x 13	0.08	1056	9	4700	EPPX1C331M1013
		470	10 x 13	0.08	1504	9	4700	EPPX1C471M1013