

PS Radial Lead Type, Long Life Assurance Series

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



SPECIFICATIONS

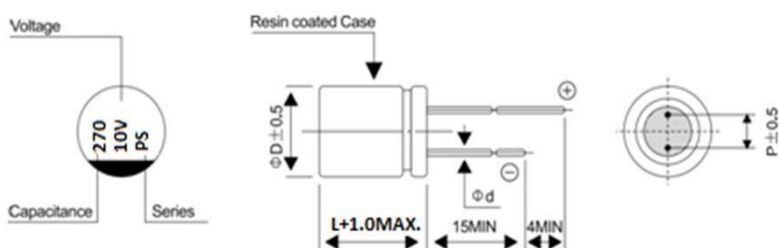
Performance Characteristics			
Items			
Category Temperature Range	-55 ~ +105℃		
Rated Voltage Range	2.5 ~16V		
Rated Capacitance Range	100 ~ 1500μF		
Capacitance Tolerance	± 20 % (at 120Hz , 20℃)		
Tangent of Loss Angle (tan δ)	Less than or equal to the specified value at 120Hz, 20℃		
ESR(※1)	Less than 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 5000 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 1000 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.

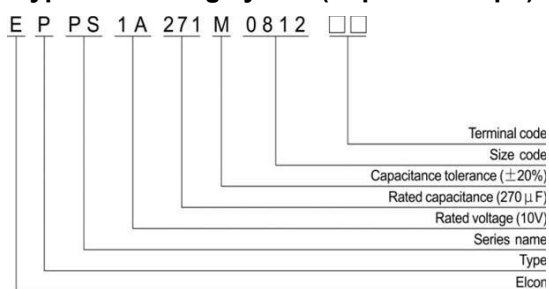
Dimensions



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(Exp: 10V 270μF)



Voltage

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

PS 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) (at 100kHz 20℃)	Rated Ripple (mArms)	Part Number
2.5 (0E)	2.8	330	6.3x9	0.08	166	8	4800	EPPS0E331M6309
		560	6.3x6	0.12	280	10	3900	EPPS0E561M6306
		680	8x7	0.08	340	15	3900	EPPS0E681M0807
		820	6.3x9	0.08	410	8	4800	EPPS0E821M6309
		820	8x9	0.08	410	7	5200	EPPS0E821M0809
		820	8x12	0.08	410	7	5800	EPPS0E821M0812
		1500	10x13	0.08	750	8	5500	EPPS0E152M1013
4 (0G)	4.6	270	6.3x9	0.08	108	8	4800	EPPS0G271M6309
		560	8x7	0.08	224	15	3900	EPPS0G561M0807
		560	8x9	0.08	224	7	5200	EPPS0G561M0809
		680	8x12	0.08	272	7	5800	EPPS0G681M0812
		1200	10x13	0.08	480	8	5500	EPPS0G122M1013
6.3 (0J)	7.2	330	6.3x10.5	0.08	416	20	3000	EPPS0J331M6310
		390	8x7	0.08	490	15	3900	EPPS0J391M0807
		470	8x12	0.08	592	7	5500	EPPS0J471M0812
		560	6.3x9	0.08	706	9	4300	EPPS0J561M6309
		560	8x9	0.08	706	8	5000	EPPS0J561M0809
		820	10x13	0.08	1034	8	5500	EPPS0J821M1013
10 (1A)	11.5	150	6.3x10.5	0.08	300	20	3000	EPPS1A151M6310
		270	8x12	0.08	540	8	4900	EPPS1A271M0812
		470	10x13	0.08	940	8	5500	EPPS1A471M1013
16 (1C)	18.4	100	6.3x10.5	0.08	160	24	2800	EPPS1C101M6310
		270	8x12	0.08	432	9	4500	EPPS1C271M0812
		330	10x13	0.08	528	9	4700	EPPS1C331M1013
		470	10x13	0.08	752	9	4700	EPPS1C471M1013