

PV

Radial Lead Type, Long Life Assurance Series

- High voltage(to 100V), Low ESR, High ripple current.
- Long life of 3000 hours at 105℃.
- Radial lead type: lead free flow soldering condition correspondence.
- RoHS Compliance(2011/65/EU)



■ SPECIFICATIONS

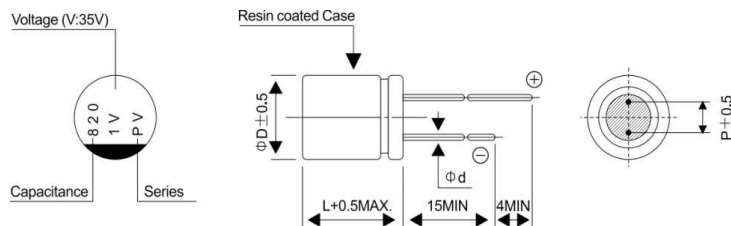
Item	Performance Characteristics		
Category Temperature Range	-55 ~ +105℃		
Rated Voltage Range	16 ~100V		
Rated Capacitance Range	6.8 to 470μF		
Capacitance Tolerance	± 20 % (at 120Hz , 20℃)		
Tangent of loss angle (tan δ)	Less than or equal to the specified value at 120Hz, 20℃		
ESR(※1)	Less than or 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 3000 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
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. 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.	Leakage current(※2)	less than or equal to the initial specified value
		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
		Capacitance change	Within ±10% of the initial capacitance value(※3)
Resistance to Soldering Heat		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.

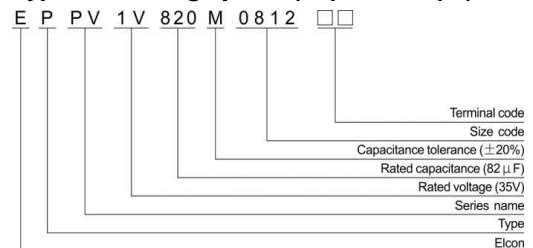
※2 Conditioning: If any doubt arises, measure the leakage current after the voltage treatment of applying DC rated voltage continuously to the capacitor for 120 minutes at 105℃

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

■ Dimensions



Type numbering system(Exp: 35V 82μF)



Φ x L(mm)			
Size	8x9	8x12	10x13
ΦD	8.0	8.0	10.0
L	8.5	11.5	12.5
P	3.5	3.5	5.0
Φd	0.6	0.6	0.6

Voltage								
V	16	20	25	35	50	63	80	100
Code	1C	1D	1E	1V	1H	1J	1K	2A

PV

Series

■STANDARD RATINGS

Rated voltage (V)(code)	Surge Voltage (V)	Rated Cpacity (μF)	Case Size ΦD x L(mm)	tan δ	Leakage Current (μA)	ESR(mΩ) (at 100kHz 20℃)	Rated Ripple (mArms)	Part Number
16 (1C)	18.4	220	8x9	0.12	704	26	2100	EPPV1C221M0809
		270	8x12	0.12	864	24	2500	EPPV1C271M0812
		470	10x13	0.12	1504	23	2900	EPPV1C471M1013
20 (1D)	23	150	8x9	0.12	600	27	2000	EPPV1D151M0809
		220	8x12	0.12	880	25	2400	EPPV1D221M0812
		330	10x13	0.12	1320	24	2800	EPPV1D331M1013
25 (1E)	28.7	120	8x9	0.12	600	28	2000	EPPV1E121M0809
		150	8x12	0.12	750	26	2400	EPPV1E151M0812
		270	10x13	0.12	1350	25	2800	EPPV1E271M1013
35 (1V)	40.2	56	8x9	0.12	392	29	1900	EPPV1V560M0809
		82	8x12	0.12	574	27	2300	EPPV1V820M0812
		150	10x13	0.12	1050	26	2700	EPPV1H151M1013
50 (1H)	57.5	33	8x9	0.12	330	32	1900	EPPV1H330M0809
		39	8x12	0.12	390	29	2200	EPPV1H390M0812
		68	10x13	0.12	680	28	2600	EPPV1H680M1013
63 (1J)	72.4	22	8x9	0.12	277	35	1800	EPPV1J220M0809
		27	8x12	0.12	340	33	2100	EPPV1J270M0812
		47	10x13	0.12	592	29	2600	EPPV1J470M1013
80 (1K)	92	10	8x9	0.12	160	40	1700	EPPV1K100M0809
		12	8x12	0.12	192	38	1900	EPPV1K120M0812
		22	10x13	0.12	352	35	2300	EPPV1K220M1013
100 (2A)	115	6.8	8x9	0.12	136	45	1600	EPPV2A6R8M0809
		10	8x12	0.12	200	42	1800	EPPV2A100M0812
		18	10x13	0.12	360	38	2200	EPPV2A180M1013