SAMSON

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

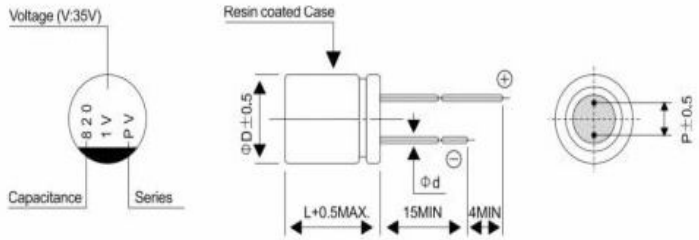
Item	Performance Characteristics		
Category Temperature Range	-55~+105℃		
Rated Voltage Range	16~100V		
Rated Capacitance Range	6.8 to 470μF		
Capacitance Tolerance	±20 % (at 120Hz , 20℃)		
Tangent of loss angle (tan δ)	Less than or equal to the specified value at 120Hz, 20℃		
ESR(※1)	Less than or equal 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
		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 minuters at 105 ℃

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

■ Dimensions



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

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■ STANDARD RATINGS

Rated voltage (V)(code)	Surge Voltage (V)	Rated Cpacitance (μF)	Case Size ΦD x L(mm)	tan δ	Leakage Current (μA)	ESR(mΩ) (at 100kHz 20 °C)	Rated Ripple (mArms)
16 (1C)	18.4	220	8x9	0.12	704	26	2100
		270	8x12	0.12	864	24	2500
		470	10x13	0.12	1504	23	2900
20 (1D)	23	150	8x9	0.12	600	27	2000
		220	8x12	0.12	880	25	2400
		330	10x13	0.12	1320	24	2800
25 (1E)	28.7	120	8x9	0.12	600	28	2000
		150	8x12	0.12	750	26	2400
		270	10x13	0.12	1350	25	2800
35 (1V)	40.2	56	8x9	0.12	392	29	1900
		82	8x12	0.12	574	27	2300
		150	10x13	0.12	1050	26	2700
50 (1H)	57.5	33	8x9	0.12	330	32	1900
		39	8x12	0.12	390	29	2200
		68	10x13	0.12	680	28	2600
63 (1J)	72.4	22	8x9	0.12	277	35	1800
		27	8x12	0.12	340	33	2100
		47	10x13	0.12	592	29	2600
80 (1K)	92	10	8x9	0.12	160	40	1700
		12	8x12	0.12	192	38	1900
		22	10x13	0.12	352	35	2300
100 (2A)	115	6.8	8x9	0.12	136	45	1600
		10	8x12	0.12	200	42	1800
		18	10x13	0.12	360	38	2200