

PV series SMD type & Low height

Features

- ◆ SMD type, Low height & Large capacitance.
- ◆ Low ESR at high frequency range & Large permissible ripple current.
- ◆ Long life and high reliability (reliability: 0.1%/1000Hrs).

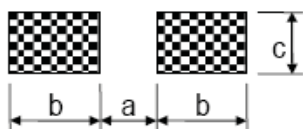
Specification

Items	Performance Characteristics	
Operating Temperature Range	-55°C ~ +105°C	
Rated Voltage Range	2.5 ~ 100V DC	
Capacitance Range	6.8 to 2500μF	
Capacitance Tolerance	±20% (120Hz, +20°C)	
Leakage Current (+20°C, max)	Not to exceed the values shown in Standard Ratings (Rated voltage applied, after 2 minutes at 20°C)	
Dissipation Factor (tanδ, at 20°C, 120Hz)	Not to exceed the values shown in Standard Ratings	
ESR (at 100KHz, 20°C)	Not to exceed the values shown in Standard Ratings	
Endurance 105°C, 2000h, at rated voltage	Capacitance Change	Within ±20% of the value before test
	Leakage current	Not to exceed the value specified
	ESR	Not to exceed 150% of the value specified
	Dissipation Factor	Not to exceed 150% of the value specified
Moisture Resistance Stored at 60°C, RH90~95%, 1000h	Capacitance Change	Within ±20% of the value before test
	Leakage Current	Not to exceed the value specified
	ESR	Not to exceed 150% of the value specified
	Dissipation Factor	Not to exceed 150% of the value specified

Frequency Coefficient for Ripple Current

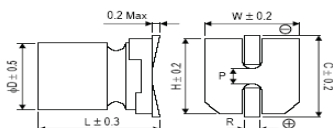
Frequency	120Hz ≤ freq. < 1KHz	1KHz ≤ freq. < 10KHz	10KHz ≤ freq. < 100KHz	100KHz ≤ freq. < 300KHz
Coefficient	0.05	0.3	0.7	1

Recommended land pattern: (unit: mm)



φD × L	a	b	c
8 × 7.7	2.8	4.2	1.9
8 × 8.7	2.8	4.2	1.9
8 × 10.5	2.8	4.2	1.9
10 × 8.7	4.3	4.4	1.9
10 × 10.5	4.3	4.4	1.9

Diagram of Dimensions: (unit: mm)



φD × L	W	H	C	R	P
8 × 7.7	8.3	8.3	9.0	0.7 to 1.1	3.1
8 × 8.7	8.3	8.3	9.0	0.7 to 1.1	3.1
8 × 10.5	8.3	8.3	9.0	0.7 to 1.1	3.1
10 × 8.7	10.3	10.3	11.0	0.7 to 1.1	4.5
10 × 10.5	10.3	10.3	11.0	0.7 to 1.1	4.5

Dimensions & Characteristics

φDxL(mm)

W.V. (V)	Capacitance (μF)	Size φDxL(mm)	L.C. (μA,2min)	tgδ (120Hz,20°C)	ESR (mΩ,100KHZ)	Maximum Permissible Ripple Current(mA,r.m.s)	
2.5	560	8×7.7	280	0.08	20	3500	
	680	8×7.7	340	0.08	20	3500	
	820	8×7.7	410	0.08	20	3500	
	1000	8×8.7	500	0.08	11	4800	
	1200	10×8.7	600	0.08	20	3700	
	1500	10×8.7	750	0.10	20	3700	
	2200	10×10.5	1100	0.10	11	5500	
4	2500	10×10.5	1250	0.10	11	5500	
	330	8×7.7	264	0.08	20	3500	
	390	8×8.7	312	0.08	15	4200	
	470	8×8.7	376	0.08	15	4200	
	560	8×7.7	448	0.08	20	3500	
		8×8.7	448	0.08	11	4800	
	680	8×7.7	544	0.08	20	3500	
		8×8.7	544	0.08	11	4800	
	820	8×8.7	656	0.08	11	4800	
		10×10.5	656	0.08	11	5100	
	1000	8×10.5	800	0.10	11	5100	
	1200	10×10.5	960	0.10	11	5500	
	1500	10×10.5	1200	0.10	11	5500	
	2000	10×10.5	1600	0.10	11	5500	
6.3	220	8×7.7	277.2	0.08	20	3500	
	270	8×7.7	340.2	0.08	20	3500	
	330	8×7.7	415.8	0.08	20	3500	
	390	8×7.7	491	0.08	20	3500	
	470	8×7.7	592.2	0.08	20	3500	
		8×8.7	592	0.08	11	4800	
	680	8×8.7	856	0.10	11	4800	
	820	10×8.7	1033.2	0.10	20	3700	
	1000	10×8.7	1260	0.10	20	3700	
	1200	10×10.5	1512	0.10	11	5500	
	1500	10×10.5	1890	0.10	11	5500	
	10	330	8×7.7	660	0.08	20	3500
		390	8×7.7	780	0.08	20	3500
470		8×8.7	940	0.08	11	4800	
560		10×8.7	1120	0.08	20	3700	
		10×10.5	1120	0.08	11	4800	
680		10×8.7	1360	0.10	20	3700	
		10×10.5	1360	0.10	11	4800	
820		10×10.5	1640	0.10	11	5100	
16	68	8×7.7	217.6	0.08	25	3300	
	150	8×7.7	480	0.08	25	3300	
	180	8×7.7	576	0.08	23	3500	
		8×8.7	576	0.08	16	4800	
	220	8×7.7	704	0.08	23	3500	
		8×8.7	704	0.08	16	4800	
	270	8×8.7	864	0.10	16	4800	
		10×10.5	864	0.10	16	5100	
	330	10×8.7	1056	0.10	23	3700	
		10×10.5	1056	0.10	16	5100	
	390	10×8.7	1248	0.10	23	3700	
		10×10.5	1248	0.10	16	5100	
	470	10×10.5	1504	0.10	16	5100	

Dimensions & Characteristics

φDxL(mm)

W.V. (V)	Capacitance (μF)	Size φDxL(mm)	L.C. (μA,2min)	tgδ (120Hz,20°C)	ESR (mΩ,100KHZ)	Maximum Permissible Ripple Current(mA,r.m.s)
20	27	8×8.7	400	0.10	25	3300
	68	8×8.7	272	0.10	22	3500
	82	8×8.7	328	0.10	22	3500
	100	8×8.7	400	0.10	22	3500
	120	10×8.7	480	0.10	30	2800
	150	8×8.7	600	0.10	22	3500
		10×8.7	600	0.10	27	3100
	180	10×8.7	720	0.10	27	3100
		10×10.5	720	0.10	22	3700
	220	10×8.7	880	0.10	27	3100
		10×10.5	880	0.10	22	3700
270	10×10.5	1080	0.10	22	3700	
330	10×10.5	1320	0.10	22	3700	
25	47	10×8.7	400	0.10	30	2800
	68	8×8.7	340	0.10	22	3500
	82	8×8.7	410	0.10	22	3500
		10×8.7	410	0.10	27	3100
	100	8×8.7	500	0.10	22	3500
		10×8.7	500	0.10	27	3100
	120	8×8.7	600	0.10	22	3500
	150	8×8.7	750	0.10	25	3300
	180	10×10.5	900	0.10	22	3700
270	10×10.5	1350	0.10	25	3500	
35	56	8×7.7	392	0.12	40	2200
	68	8×7.7	476	0.12	35	2400
	82	8×8.7	574	0.12	35	2600
	100	8×8.7	700	0.12	30	3000
		10×10.5	700	0.12	30	3200
	120	10×10.5	840	0.12	30	3200
	150	10×10.5	1050	0.12	30	3200
50	10	8×8.7	100	0.12	45	1500
	33	8×8.7	330	0.12	40	1900
	47	8×10.5	470	0.12	35	2200
		10×10.5	470	0.12	35	2500
	68	10×10.5	680	0.12	35	2600
63	10	8×8.7	126	0.12	45	1500
	22	8×8.7	277	0.12	40	1700
	27	8×8.7	340	0.12	40	1900
	33	8×8.7	416	0.12	40	1900
		10×10.5	416	0.12	35	2200
	47	10×10.5	592	0.12	35	2200
80	10	8×8.7	160	0.12	45	1600
	15	10×10.5	240	0.12	40	1900
100	6.8	8×8.7	136	0.12	48	1500
	12	10×10.5	240	0.12	45	1900
	15	8×8.7	300	0.12	48	1500