

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).



Specifications

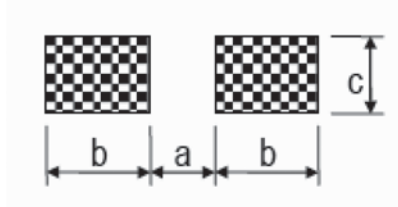
Item	Performance Characteristics	
Operating Temperature Range	-55~+105°C	
Rated Voltage Range	2.5~25 VDC	
Capacitance Range	39 to 2500 μF	
Capacitance Tolerance	±20%(120Hz,+20°C)	
Leakage Current (+20°C,max.)	Not to exceed the value specified (μ A, after 2 minutes)	
Dissipation Factor (tan δ , at 20°C , 120Hz)	Not to exceed the value specified	
ESR (100K~300KHz)	Not to exceed the value specified	
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

Conductive Polymer

Frequency Coefficient for Ripple Current

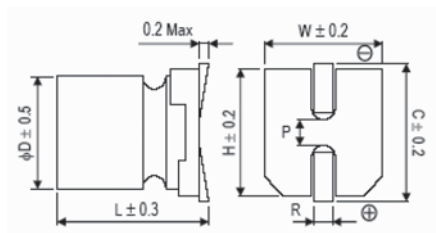
Frequency	120Hz ≤ freq. < 1KHz	1KHz ≤ freq. < 10KHz	10KHz ≤ freq. < 100KHz	100KHz ≤ freq. < 300KHz
Coefficient	0.05	0.3	0.7	1

Recommended land pattern:(unit:mm)



φD×L	a	b	c
8X7.7	2.8	4.2	1.9
8X10.5	2.8	4.2	1.9
10X8.7	4.3	4.4	1.9
10X10.5	4.3	4.4	1.9

Diagram of Dimensions:(unit:mm)



φD×L	W	H	C	R	P
8X7.7	8.3	8.3	9.0	0.8 to 1.1	3.2
8X10.5	8.3	8.3	9.0	0.8 to 1.1	3.2
10X8.7	10.3	10.3	11.0	0.8 to 1.1	4.6
10X10.5	10.3	10.3	11.0	0.8 to 1.1	4.6

Dimensions & Characteristics

W.V. (V)	Capacitance (μ F)	L.C. (μ A,2min)	tg δ (120Hz,20°C)	ESR (m Ω ,100KHZ)	Maximum Permissible Ripple Current(mA,r.m.s)	ϕ DxL(mm)
						Size Φ DxL(mm)
2.5	560	280	0.08	20	3500	8x7.7
				11	4800	8x10.5
	680	340	0.08	20	3500	8x7.7
				11	4800	8x10.5
	820	410	0.08	20	3500	8x7.7
				11	4800	8x10.5
	1000	500	0.08	11	4800	8x10.5
				20	3700	10x8.7
	1200	600	0.08	11	4800	8x10.5
20				3700	10x8.7	
1500	750	0.10	20	3700	10x8.7	
			11	5100	10x10.5	
2000	1000	0.10	11	5100	10x10.5	
2500	1250	0.10	11	5100	10x10.5	
4	560	448	0.08	20	3500	8x7.7
				11	4800	8x10.5
	680	544	0.08	20	3500	8x7.7
				11	4800	8x10.5
	820	656	0.08	11	4800	8x10.5
				20	3700	10x8.7
	1000	800	0.10	11	4800	8x10.5
20				3700	10x8.7	
1200	960	0.10	11	5100	10x10.5	
1500	1200	0.10	11	5100	10x10.5	
2000	1600	0.10	11	5100	10x10.5	
6.3	220	277.2	0.08	20	3500	8x7.7
				11	4800	8x10.5
	270	340.2	0.08	20	3500	8x7.7
				11	4800	8x10.5
	330	415.8	0.08	20	3500	8x7.7
				11	4800	8x10.5
	390	491	0.08	20	3500	8x7.7
				11	4800	8x10.5
	470	592	0.08	20	3500	8x7.7
				11	4800	8x10.5
	560	705.6	0.08	11	4800	8x10.5
11				4800	8x10.5	
680	856	0.10	11	5100	10x10.5	
			11	5100	10x10.5	
820	1033.2	0.10	20	3700	10x8.7	
			11	5100	10x10.5	
1000	1260	0.10	20	3700	10x8.7	
			11	5100	10x10.5	
1200	1260	0.10	11	5100	10x10.5	
10	330	660	0.08	20	3500	8x7.7
				11	4800	8x10.5
	390	780	0.08	20	3500	8x7.7
				11	4800	8x10.5
	470	940	0.08	11	4800	8x10.5
				20	3700	10x8.7
	560	1120	0.08	20	3700	10x8.7
11				4800	10x10.5	
680	1360	0.10	20	3700	10x8.7	
			11	4800	10x10.5	
820	1640	0.10	11	5100	10x10.5	

Ripple Current (mA, rms) at 105°C, 100KHz

W.V. (V)	Capacitance (μ F)	L.C. (μ A, 2min)	tg δ (120Hz, 20°C)	ESR (m Ω , 100KHZ)	Maximum Permissible Ripple Current(mA, r.m.s)	Size Φ D \times L(mm)
16	180	288	0.08	20	3500	8 \times 7.7
				11	4800	8 \times 10.5
	220	352	0.08	20	3500	8 \times 7.7
				11	4800	8 \times 10.5
	270	432	0.10	11	4800	8 \times 10.5
				11	5100	10 \times 10.5
	330	528	0.10	20	3700	10 \times 8.7
				11	5100	10 \times 10.5
	390	624	0.10	20	3700	10 \times 8.7
				11	5100	10 \times 10.5
470	752	0.10	11	5100	10 \times 10.5	
20	68	272	0.08	20	3500	8 \times 10.5
	82	328	0.08	20	3500	8 \times 10.5
	100	400	0.08	20	3500	8 \times 10.5
	150	600	0.10	20	3500	8 \times 10.5
				25	3100	10 \times 8.7
	180	720	0.10	25	3100	10 \times 8.7
				20	3700	10 \times 10.5
	220	880	0.10	25	3100	10 \times 8.7
20				3700	10 \times 10.5	
270	1080	0.10	20	3700	10 \times 10.5	
25	68	340	0.08	20	3500	8 \times 10.5
	82	410	0.10	20	3500	8 \times 10.5
				25	3100	10 \times 8.7
	100	500	0.10	25	3100	10 \times 8.7
				20	3700	10 \times 10.5
150	750	0.10	20	3700	10 \times 10.5	

Ripple Current (mA, rms) at 105°C, 100KHz

Size List

WV(SV) Cap(μ F)	2.5 (2.8)	4 (4.6)	6.3 (7.2)	10 (11.5)	16 (18.4)	20 (23)	25 (27.5)
68						8 \times 10.5	8 \times 10.5
82						8 \times 10.5	8 \times 10.5/10 \times 8.7
100						8 \times 10.5	10 \times 8.7/10 \times 10.5
150						8 \times 10.5/10 \times 8.7	10 \times 10.5
180					8 \times 7.7/8 \times 10.5	10 \times 8.7/10 \times 10.5	
220			8 \times 7.7/8 \times 10.5		8 \times 7.7/8 \times 10.5	10 \times 8.7/10 \times 10.5	
270			8 \times 7.7/8 \times 10.5		8 \times 10.5/10 \times 10.5	10 \times 10.5	
330			8 \times 7.7/8 \times 10.5	8 \times 7.7/8 \times 10.5	10 \times 8.7/10 \times 10.5		
390			8 \times 7.7/8 \times 10.5	8 \times 7.7/8 \times 10.5	10 \times 8.7/10 \times 10.5		
470			8 \times 7.7/8 \times 10.5	8 \times 10.5/10 \times 8.7	10 \times 10.5		
560	8 \times 7.7/8 \times 10.5	8 \times 7.7/8 \times 10.5	8 \times 10.5	10 \times 8.7/10 \times 10.5			
680	8 \times 7.7/8 \times 10.5	8 \times 7.7/8 \times 10.5	8 \times 10.5/10 \times 10.5	10 \times 8.7/10 \times 10.5			
820	8 \times 7.7/8 \times 10.5	8 \times 10.5/10 \times 8.7	10 \times 8.7/10 \times 10.5	10 \times 10.5			
1000	8 \times 10.5/10 \times 8.7	8 \times 10.5/10 \times 8.7	10 \times 8.7/10 \times 10.5				
1200	8 \times 10.5/10 \times 8.7	10 \times 10.5	10 \times 10.5				
1500	10 \times 8.7/10 \times 10.5	10 \times 10.5					
2000	10 \times 10.5	10 \times 10.5					
2500	10 \times 10.5						

Ripple Current (mA, rms) at 105°C, 100KHz