

PV Series

性能特点 Feature

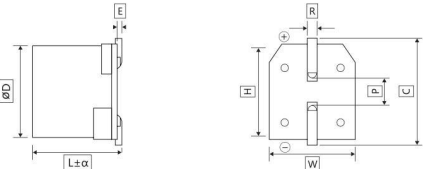
- Standard SMD type
- Rated Voltage:2.5~100V
- Endurance 5000~10000 hours at 105°C
- Suitable for DC-DC converters, voltage regulators and decoupling applications
- RoHS Compliant



技术性能 Specifications

Category Temperature Range	-55 to 105°C	Rated Voltage Range	2.5 to 100Vdc
Rated Capacitance Range	22 to 1000(μF)	Capacitance Tolerance	± 20%(M)
Surge Voltage	Rated voltage X 1.15 (at 105°C)	Dissipation Factor	0.12 max.(at 20°C 120Hz)
Leakage Current	Shall not exceed values shown in standard ratings. (at 20°C after 2 mins.)		
Endurance	105°C, 5000-10000 hours, apply the rated ripple current without exceeding the rated voltage		
	Appearance	No significant damage	
	Capacitance Change	≤ ± 20% of the initial value	
	DF(tanδ)	≤ 150% of the initial specified value	
	ESR	≤ 150% of the initial specified value	
	Leakage current	≤ The initial specified value	
Damp Heat (Steady State)	60°C,90 to 95% RH, 1000hrs, rated voltage applied		
	Appearance	No significant damage	
	Capacitance Change	≤ ± 20% of the initial value	
	DF(tanδ)	≤ 150% of the initial specified value	
	ESR	≤ 150% of the initial specified value	
	Leakage current	≤ The initial specified value	
Shelf Life	1,000 cycles and each one includes charge with surge voltage specified at 105°C for 0.5min through a protective resistor (R=1kΩ) and discharge for 5.5min.		
	Appearance	No significant damage	
	Capacitance Change	≤ ± 20% of the initial value	
	DF(tanδ)	≤ 150% of the initial specified value	
	ESR	≤ 150% of the initial specified value	
	Leakage current	≤ The initial specified value	

尺寸和标记 Dimensions And Marking



SIZE Code	ΦD±0.5 max	L	α	E	W±0.2	H±0.2	C±0.2	R	P±0.3
0506	5.0	5.8	±0.2	0.00~0.20	5.3	5.3	6.0	0.5~0.8	1.4
0645	6.3	4.3	±0.2	0.00~0.20	6.6	6.6	7.3	0.5~0.8	2.1
0606	6.3	5.8	±0.2	0.00~0.20	6.6	6.6	7.3	0.5~0.8	2.1
0608	6.3	7.5	±0.5	0.00~0.20	6.6	6.6	7.3	0.5~0.8	2.1
0610	6.3	9.7	±0.3	0.00~0.20	6.6	6.6	7.3	0.6~0.9	2.1
0807	8.0	6.8	±0.2	0.00~0.20	8.3	8.3	9.0	0.8~1.1	2.9
0810	8.0	9.7	±0.3	0.00~0.20	8.3	8.3	9.0	0.8~1.1	2.9
0812	8.0	12.0	±0.5	0.00~0.20	8.3	8.3	9.0	0.8~1.1	3.2
1010	10.0	10.2	±0.3	0.00~0.20	10.3	10.3	11.0	0.8~1.1	4.6
1012	10.0	12.3	±0.2	0.00~0.20	10.3	10.3	11.0	0.8~1.1	4.6

PV Series

标准评级 Standard Ratings

WV/Vdc (SV)	Cap (μF)	Size Code	Leakage Current (μA)	ESR (mΩ max/20°C, 100k to 300kHz)	Rated Ripple Current (mArms/ 105°C/100kHz)
2.5 (2.9)	330	0645	700	16	3180
	390	0606	489	10	3900
	560	0606	700	10	3900
	820	0610	700	10	4300
6.3 (7.2)	220	0645	700	17	2300
	330	0606	416	17	3390
	560	0610	705	10	4300
16 (18.4)	100	0606	320	24	2490
	180	0605	576	21	3300
	270	0810	864	16	4400
	470	0810	1504	12	4700
	560	0812	1792	14	4950
	1000	1012	3200	12	5400
25 (28.8)	22	0645	275	45	2350
	27	0606	338	40	2100
	47	0606	235	35	900
	56	0606	280	35	1100
	100	0807	500	24	1400
	180	0810	900	18	1400
	220	0810	1100	18	1400
	330	0812	1650	18	1050
	390	1010	98	20	2500
	470	1010	118	20	2500
	47	0606	329	35	2100
	68	0608	476	35	2000
35 (40.3)	100	0810	700	35	2800
	150	0810	1050	25	3000
	220	0812	1540	25	2890
	270	1010	95	20	2500
	330	1012	2310	24	3400
	33	0608	17	40	1600
50 (57.5)	47	0810	470	25	2700
	68	0810	680	25	2700
	100	1010	50	28	2000
	120	1012	1200	19	2950
	150	1012	75	25	2000
	180	1012	90	25	2000
	220	1012	2200	17	2950
63 (72.5)	22	0608	14	80	1500
	33	0810	21	40	1700
	47	0810	592	25	2700
	56	1012	705	25	2950
	68	1012	857	25	3280
80 (92)	82	1010	52	30	1800
	22	0810	352	40	1700
	33	1010	26	36	1700
	47	1012	752	33	2100
	68	1012	1088	25	2950
100 (115)	22	1012	440	45	1600
	47	1012	940	35	2100

* 支持客户根据需求定制 Support Customer Customization According To Demand

允许纹波电流的频率校正系数 Frequency Correction Factor Of Allowable Ripple Current

Frequency	120Hz ≤ f < 1kHz	1kHz ≤ f < 10kHz	10kHz ≤ f < 100kHz	100kHz ≤ f ≤ 500kHz
Coefficient	0.05	0.3	0.7	1

产品标识 Product Identification

250	PV	101	M	0608
Rated Voltage	Product	Capacitance	Cap Tolerance(%)	Size code(øD×L)
250:25V	Series	101=100μF	M: ±20%	0608: 6.3×8.0mm