

PV series

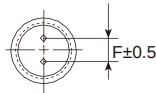
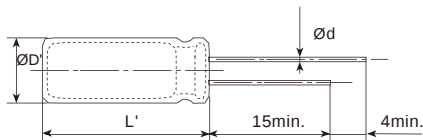
- Endurance: +125°C 2,000 hours
- High voltage
- Recommended Applications: System Board, Display Card, Small Charger, and intelligent TV
- RoHS Compliant and lead-free



SPECIFICATIONS

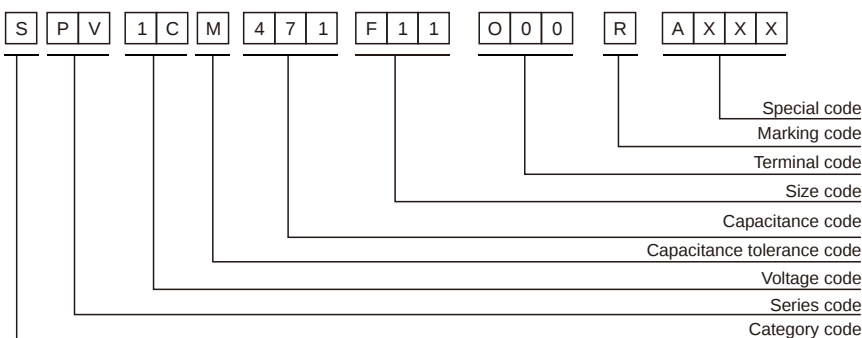
Items	Characteristics						
Category Temperature Range	-55~+125℃						
Rated Working Voltage Range	35~100 V _{dc}						
Nominal Capacitance Range	4.7~1000μF						
Capacitance Tolerance	±20%(M) (at 20℃,120Hz)						
DC Leakage Current	I≤0.2CV or 500μA, whichever is greater. Where, I:Max.leakage current (μA),C:Nominal capacitance (μF),V: Rated voltage (V) (at 20℃ after 2 minutes)						
Dissipation Factor (tanδ)	Rated Voltage(V _{dc})	35	50	63	80	100	(at 20℃,120Hz)
	tanδ (max.)	0.12				0.15	
ESR(100kHz,20℃)	Value in characteristics table						
Temperature Characteristic (Impedance Ratio at 100kHz)	Z(+125℃)/Z(+20℃)≤1.25 Z(-55℃)/Z(+20℃)≤1.25						
Endurance	After applying rated voltage for 2,000 hours at 125℃,the capacitors shall meet the following requirements.						
	Appearance	No significant damage					
	Capacitance Change	≤±20% of the initial value					
	D.F. (tanδ)	≤150% of the initial specified value					
	ESR	≤150% of the initial specified value					
	Leakage Current	≤The initial specified value					
Humidity Test	After subjecting to 90%~95% RH for 2,000 hours at 60℃ without voltage applied, the capacitors shall meet the specified values for the Endurance characteristics listed above.						
Surge Test	After subjecting to 1,000 cycles each consisting of charge with the surge voltage specified at normal temperature for 30 seconds through a protective resistor and discharge for 5 minutes 30 seconds, the capacitors shall meet the following requirements.						
	Appearance	No significant damage					
	Capacitance Change	≤±20% of the initial value					
	D.F. (tanδ)	≤150% of the initial specified value					
	ESR	≤150% of the initial specified value					
	Leakage Current	≤The initial specified value					

DIMENSIONS[mm]



ØD	5	5.5	6.3	8	10
Ød	0.5	0.5	0.5	0.6	0.6
F	2.0	2.5	2.5	3.5	5.0
ØD'	ØD-0.1~+0.5				
L'	L+1.0max.		L-0.5~+1		

PART NUMBERING SYSTEM



PV series

■ STANDARD RATINGS

VDC (SV)	Cap (μF)	Size ΦD×L(mm)	ESR (mΩ, 20°C, 100kHz) (max.)	Rated ripple current (mA rms/125°C, 100kHz)	Leakage Current (μA)(max.)	Part Number
35 (40.3)	4.7	5×8	90	500	500	SPV1VM4R7D08O00RAXXX
	10	5×8	90	500	500	SPV1VM100D08O00RAXXX
	15	5×8	90	500	500	SPV1VM150D08O00RAXXX
	22	5×9	150	500	500	SPV1VM220D09O00RAXXX
	33	5×9	75	600	500	SPV1VM330D09O00RAXXX
	39	5×9	75	600	500	SPV1VM390D09O00RAXXX
	47	6.3×7	75	600	500	SPV1VM470E07O00RAXXX
	56	6.3×7	75	600	500	SPV1VM560E07O00RAXXX
	68	6.3×7	75	600	500	SPV1VM680E07O00RAXXX
	82	6.3×7	75	600	574	SPV1VM820E07O00RAXXX
	100	6.3×8	75	700	700	SPV1VM101E08O00RAXXX
		6.3×10	60	700	700	SPV1VM101E10O00RAXXX
	120	8×11	60	700	700	SPV1VM101F11O00RAXXX
		6.3×10	60	700	840	SPV1VM121E10O00RAXXX
	150	6.3×10	60	700	1050	SPV1VM151E10O00RAXXX
	220	8×11	60	800	1540	SPV1VM221F11O00RAXXX
		10×12	45	800	1540	SPV1VM221G12O00RAXXX
	270	10×12	45	900	1890	SPV1VM271G12O00RAXXX
	330	10×12	45	900	2310	SPV1VM331G12O00RAXXX
	470	10×13	30	900	3290	SPV1VM471G13O00RAXXX
50 (57.5)	560	10×14	30	900	3920	SPV1VM561G14O00RAXXX
	680	10×16	30	1000	4760	SPV1VM681G16O00RAXXX
	820	10×18	30	1000	5000	SPV1VM821G18O00RAXXX
	1000	10×18	30	1100	5000	SPV1VM102G18O00RAXXX
	4.7	5×8	90	400	500	SPV1HM4R7D08O00RAXXX
	10	6.3×7	52	500	500	SPV1HM100E07O00RAXXX
	15	5×8	105	500	500	SPV1HM100D08O00RAXXX
	22	6.3×7	60	500	500	SPV1HM150D08O00RAXXX
	33	6.3×7	60	500	500	SPV1HM220E07O00RAXXX
	47	6.3×8	52	600	500	SPV1HM330E07O00RAXXX
	56	6.3×8	52	600	500	SPV1HM470E08O00RAXXX
	68	6.3×10	45	600	560	SPV1HM560E08O00RAXXX
	100	8×11	45	600	680	SPV1HM680E10O00RAXXX
	150	8×9	60	600	1000	SPV1HM101F11O00RAXXX
		10×12	45	600	1000	SPV1HM101F09O00RAXXX
	220	10×12	45	700	1500	SPV1HM151G12O00RAXXX
	270	10×13	30	800	2200	SPV1HM221G12O00RAXXX
	330	10×15	30	800	2700	SPV1HM271G13O00RAXXX
	440	10×18	30	800	3300	SPV1HM331G15O00RAXXX
	470	10×18	30	900	4400	SPV1HM441G18O00RAXXX
63 (72.5)	4.7	6.3×8	90	400	500	SPV1HM471G18O00RAXXX
	6.8	6.3×8	90	400	500	SPV1JM4R7E08O00RAXXX
	10	6.3×5	90	400	500	SPV1JM6R8E08O00RAXXX
	33	6.3×8	45	500	500	SPV1JM100E05O00RAXXX
	39	6.3×8	45	500	500	SPV1JM330E08O00RAXXX
	68	8×11	45	500	500	SPV1JM390E08O00RAXXX
	82	8×11	45	600	857	SPV1JM680F11O00RAXXX
	100	10×12	45	600	1033	SPV1JM820F11O00RAXXX
	150	10×12	45	600	1260	SPV1JM101G12O00RAXXX
	180	10×13	30	700	1890	SPV1JM151G12O00RAXXX
	220	10×15	30	700	2268	SPV1JM181G13O00RAXXX
	270	10×17	30	700	2772	SPV1JM221G15O00RAXXX
	330	10×18	30	800	3402	SPV1JM271G17O00RAXXX
	4.7	6.3×8	90	800	4158	SPV1JM331G18O00RAXXX
	6.8	6.3×8	90	400	500	SPV1BM4R7E08O00RAXXX
	22	6.3×10	90	400	500	SPV1BM6R8E08O00RAXXX
	33	8×11	52	400	500	SPV1BM220E10O00RAXXX
	47	10×12	52	500	528	SPV1BM330F11O00RAXXX
	68	10×12	52	500	752	SPV1BM470G12O00RAXXX
	100	10×14	52	500	1088	SPV1BM680G12O00RAXXX
80 (92.0)	100	10×14	52	600	1600	SPV1BM101G14O00RAXXX
	4.7	6.3×8	180	400	500	SPV1KM4R7E08O00RAXXX
	6.8	6.3×8	180	400	500	SPV1KM6R8E08O00RAXXX
	10	6.3×10	75	400	500	SPV1KM100E10O00RAXXX
	15	8×11	75	400	500	SPV1KM100F11O00RAXXX
		8×11	75	400	500	SPV1KM150F11O00RAXXX
	22	10×12	52	400	500	SPV1KM220G12O00RAXXX
100 (115.0)	33	10×14	52	400	660	SPV1KM330G14O00RAXXX
	47	10×16	52	400	940	SPV1KM470G16O00RAXXX

Specifications subject to change without notice.