

PS series Standard Products

Features

- ◆ Low ESR at high frequency range.
- ◆ Large permissible ripple current.



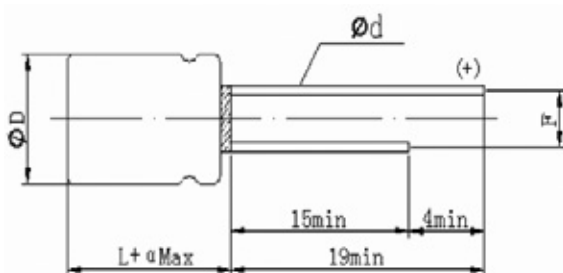
Specifications

Item	Performance Characteristics	
Operating Temperature Range	-55~+105°C	
Rated Voltage Range	2.5~25 VDC	
Capacitance Range	39 to 3500 μF	
Capacitance Tolerance	±20%(120Hz,+20°C)	
Leakage Current (+20°C,max.)	≦0.2CV (μA, 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% , 2000h	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

Diagram of Dimensions:(unit:mm)



φD×L	φD+0.5max.	α	F±0.5	φd±0.05
8×8	8.0	1.0	3.5	0.6
8×11.5	8.0	1.5	3.5	0.6
10×12.5	10.0	1.5	5.0	0.6

Dimensions & Characteristics

φ D×L(mm)

W.V. (V)	Capacitance (μF)	L.C. (μA,2min)	tg δ (120Hz,20°C)	ESR (mΩ,100kHz)	Maximum Permissible Ripple Current(mA,r.m.s)	Size ΦD×L(mm)
2.5	560	280	0.08	12	5100	8×8 8×11.5
	680	340	0.08	12	5200	8×8 8×11.5
	820	410	0.08	12	5200	8×8 8×11.5
	1000	500	0.08	12	5500	8×11.5
	1200	600	0.08	12	5500	8×11.5
	1500	750	0.08	12	5500	8×11.5
	2000	1000	0.08	12	5900	10×12.5
	2500	1250	0.08	12	5900	10×12.5
	2700	1350	0.08	12	5900	10×12.5
	3000	1500	0.08	12	5900	10×12.5
	3300	1650	0.08	12	5900	10×12.5
	3500	1750	0.10	12	5900	10×12.5
4.0	560	224	0.08	12	5100 5200	8×8 8×11.5
	680	272	0.08	12	5100 5200	8×8 8×11.5
	820	328	0.08	12	5100 5200 5900	8×8 8×11.5 10×12.5
	1200	960	0.10	12	5500 5900	8×11.5 10×12.5
	1500	1200	0.10	12	5900	10×12.5
	2000	1600	0.10	12	5900	10×12.5
	2500	2000	0.10	12	5900	10×12.5
	180	226.8	0.07	21	5100 5100	8×8 8×11.5
220	277	0.07	21	5100 5100	8×8 8×11.5	
270	340.2	0.07	21	5100 5100	8×8 8×11.5	
330	416	0.07	15	5100 5500	8×8 8×11.5	
390	491	0.08	15	5100 5500	8×8 8×11.5	
470	592	0.08	12	5100 5500	8×8 8×11.5	
560	705.6	0.08	12	5100 5500	8×8 8×11.5	
680	428	0.08	10 12	5100 5500 5900	8×8 8×11.5 10×12.5	
820	516.6	0.10	12	5100 5500 5900	8×8 8×11.5 10×12.5	
1000	630	0.10	12	5900	10×12.5	
1200	756	0.10	12	5500 5900	8×11.5 10×12.5	
1500	945	0.10	12	5900	10×12.5	
2000	1260	0.10	12	5900	10×12.5	
10	180	180	0.08	15	5100	8×11.5
	220	220	0.08	15	5100	8×11.5
	270	270	0.08	15	5500	8×11.5
	330	330	0.08	12	5500	8×11.5
	390	390	0.08	12	5500	8×11.5
	470	470	0.08	12	5500	8×11.5
	560	560	0.08	12	5500	8×11.5
680	680	0.10	12	5900	10×12.5	
10	820	820	0.10	12	5900	10×12.5
	1000	1000	0.10	12	5900	10×12.5
	1200	1200	0.10	12	5900	10×12.5

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

Dimensions & Characteristics

							φ D×L(mm)
W.V. (V)	Capacitance (μF)	L.C. (μA, 2min)	tg δ (120Hz, 20°C)	ESR (mΩ, 100kHz)	Maximum Permissible Ripple Current(mA, r.m.s)	Size ΦD×L(mm)	
16	100	160	0.08	15	4800	8×11.5	
	180	288	0.08	15	4500	8×8	
					4800	8×11.5	
	220	352	0.08	15	5000	8×11.5	
	270	432	0.08	0.08	12	5000	8×8
					15	5000	8×11.5
					12	5500	10×12.5
	330	528	0.08	0.08	12	5000	8×8
						5500	10×12.5
	390	624	0.08	12	5500	10×12.5	
	470	752	0.10	0.10	12	5000	8×11.5
						5500	10×12.5
560	896	0.10	0.10	12	5500	10×12.5	
680	1000	0.10	0.10	12	5500	10×12.5	
820	1000	0.10	0.10	12	5500	10×12.5	
20	39	156	0.08	30	4100	8×11.5	
	47	188	0.08	30	4100	8×11.5	
	68	272	0.08	25	4100	8×11.5	
	82	328	0.08	20	4100	8×11.5	
	100	400	0.08	18	4900	10×12.5	
	180	720	0.08	18	4900	10×12.5	
25	220	880	0.08	18	4900	10×12.5	
	39	195	0.08	25	4100	8×11.5	
	47	235	0.08	20	4100	8×11.5	
	68	340	0.08	20	4100	8×11.5	
	82	410	0.08	20	4100	8×11.5	
	100	500	0.08	0.08	15	4500	8×8
					20	4900	10×12.5
	180	900	0.08	20	4900	10×12.5	
220	1100	0.08	20	4900	10×12.5		

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

Size List

								φ D×L(mm)
WV (SV) Cap(μF)	2.5 (2.8)	4 (4.6)	6.3 (7.2)	10 (11.5)	16 (18.4)	20 (23)	25 (27.5)	
39						8x11.5	8x11.5	
47						8x11.5	8x11.5	
68						8x11.5	8x11.5	
82						8x11.5	8x11.5	
100					8x11.5	10x12.5	10x12.5	
180			8x8 / 8x11.5	8x11.5	8x8 / 8x11.5	10x12.5	10x12.5	
220			8x8 / 8x11.5	8x11.5	8x11.5	10x12.5	10x12.5	
270			8x8 / 8x11.5	8x11.5	8x11.5			
330			8x8 / 8x11.5	8x11.5	8x11.5 / 10x12.5			
390			8x8 / 8x11.5	8x11.5	10x12.5			
470			8x8 / 8x11.5	8x11.5	10x12.5			
560	8x8 / 8x11.5	8x8 / 8x11.5	8x11.5	8x11.5	10x12.5			
680	8x8 / 8x11.5	8x8 / 8x11.5	8x11.5 / 10x12.5	10x12.5	10x12.5			
820	8x8 / 8x11.5	8x8 / 8x11.5 / 10x12.5	8x8 / 8x11.5 / 10x12.5	10x12.5	10x12.5			
1000	8x11.5	8x11.5	10x12.5	10x12.5				
1200	8x11.5	8x11.5 / 10x12.5	8x11.5 / 10x12.5	10x12.5				
1500	8x11.5	10x12.5	10x12.5					
2000	10x12.5	10x12.5	10x12.5					
2500	10x12.5	10x12.5						
2700	10x12.5							
3000	10x12.5							
3300	10x12.5							
3500	10x12.5							

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