

PS series Standard Products



Features

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

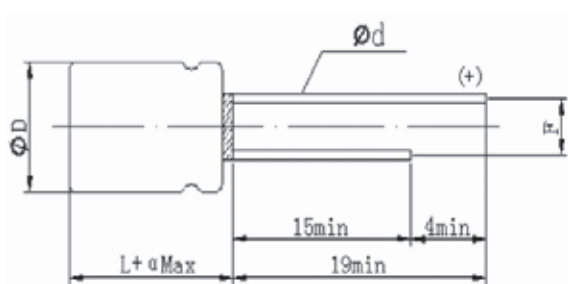
Specifications

Item	Performance Characteristics	
Operating Temperature Range	-55°C~+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.)	Not to exceed the values shown in Standard Ratings (Rated voltage applied, after 2 minutes at 20°C)	
Dissipation Factor (tan δ , 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

Diagram of Dimensions:(unit:mm)



φ DxL	φ D+0.5	α	F±0.5	φ d±0.05
8x8	8.0	1.0	3.5	0.6
8x11.5	8.0	1.5	3.5	0.6
10x12.5	10.0	1.5	5.0	0.6

Standard Ratings

W.V. (V)	Cap(μF)	Size φ DxL(mm)	L.C. (μA,2min)	tg δ (120Hz,20°C)	ESR (mΩ),100KHz)	Maximum Permissible Ripple Current(mA,r.m.s)
2.5	560	8x8	280	0.08	12	5100
		8x11.5	280	0.08	12	5100
	680	8x8	340	0.08	12	5200
		8x11.5	340	0.08	12	5200
	820	8x8	410	0.08	12	5200
		8x11.5	410	0.08	12	5200
	1000	8x8	500	0.08	12	5500
		8x11.5	500	0.08	12	5500
	1200	8x8	600	0.08	12	5500
		8x11.5	600	0.08	12	5500
	1500	8x8	750	0.08	12	5500
		8x11.5	750	0.08	12	5500
	2000	8x11.5	1000	0.08	12	5900
		10x12.5	1000	0.08	12	5900
	2200	10x12.5	1100	0.08	12	5900
2500	10x12.5	1250	0.08	12	5900	
2700	10x12.5	1350	0.08	12	5900	
3000	10x12.5	1500	0.08	12	5900	
3300	10x12.5	1650	0.08	12	5900	
3500	10x12.5	1750	0.10	12	5900	
4	560	8x8	448	0.08	12	5100
		8x11.5	448	0.08	12	5200
	680	8x8	544	0.08	12	5100
		8x11.5	544	0.08	12	5200
	820	8x8	656	0.08	12	5100
		8x11.5	656	0.08	12	5200
		10x12.5	656	0.08	12	5900
	1000	8x8	800	0.10	12	5100
		8x11.5	800	0.10	12	5500
		10x12.5	800	0.10	12	5900
	1200	8x11.5	960	0.10	12	5500
		10x12.5	960	0.10	12	5900
	1500	8x11.5	600	0.10	12	5500
		10x12.5	600	0.10	12	5900
	2000	10x12.5	800	0.10	12	5900
2200	10x12.5	880	0.10	12	5900	
2500	10x12.5	1000	0.10	12	5900	
6.3	180	8x8	226.8	0.07	21	5100
		8x11.5	226.8	0.07	21	5100
	220	8x8	277.2	0.07	21	5100
		8x11.5	277.2	0.07	21	5100
	270	8x8	340.2	0.07	21	5100
		8x11.5	340.2	0.07	21	5100
	330	8x8	415.8	0.07	15	5100
		8x11.5	415.8	0.07	15	5500
	390	8x8	491.4	0.08	15	5100
		8x11.5	491.4	0.08	15	5500
	470	8x8	592.2	0.08	12	5100
		8x11.5	592.2	0.08	12	5500
	560	8x8	705.6	0.08	12	5100
		8x11.5	705.6	0.08	12	5500
	680	8x8	428.4	0.08	10	5100
		8x11.5	428.4	0.08	12	5500
		10x12.5	428.4	0.08	12	5900
	820	8x8	516.6	0.10	12	5100
		8x11.5	516.6	0.10	12	5500
		10x12.5	516.6	0.10	12	5900
	1000	8x8	630	0.10	12	5100
8x11.5		630	0.10	12	5500	
10x12.5		630	0.10	12	5900	

Standard Ratings

W.V. (V)	Cap(μF)	Size φ DxL(mm)	L.C. (μA,2min)	tg δ (120Hz,20°C)	ESR (mΩ),100KHz)	Maximum Permissible Ripple Current(mA,r.m.s)
6.3	1200	8x11.5	756	0.10	12	5500
		10x12.5	756	0.10	12	5900
	1500	8x11.5	945	0.10	12	5500
		10x12.5	945	0.10	12	5900
	2000	10x12.5	1260	0.10	12	5900
	2200	10x12.5	1386	0.10	12	5900
2500	10x12.5	1575	0.10	12	5900	
10	180	8x8	180	0.08	15	5100
		8x11.5	180	0.08	15	5500
	220	8x8	220	0.08	15	5100
		8x11.5	220	0.08	15	5500
	270	8x8	270	0.08	15	5100
		8x11.5	270	0.08	15	5500
	330	8x8	330	0.08	12	5100
		8x11.5	330	0.08	12	5500
	390	8x8	390	0.08	12	5100
		8x11.5	390	0.08	12	5500
	470	8x8	470	0.08	12	5500
		8x11.5	470	0.08	12	5500
	560	8x8	560	0.08	12	5500
		8x11.5	560	0.08	12	5500
	680	8x8	680	0.10	12	5500
		8x11.5	680	0.10	12	5900
		10x12.5	680	0.10	12	5900
	820	8x11.5	820	0.10	12	5900
		10x12.5	820	0.10	12	5900
	1000	8x11.5	1000	0.10	12	5900
10x12.5		1000	0.10	12	5900	
1200	10x12.5	1200	0.10	12	5900	
1500	10x12.5	1500	0.10	12	5900	
16	100	8x11.5	160	0.08	12	4800
	150	8x8	240	0.08	12	4500
	180	8x8	288	0.08	15	4500
		8x11.5	288	0.08	15	4800
	220	8x8	352	0.08	15	4500
		8x11.5	352	0.08	15	5000
	270	8x8	432	0.08	12	4500
		8x11.5	432	0.08	15	5000
		10x12.5	432	0.08	12	5500
	330	8x8	528	0.08	12	4500
		8x11.5	528	0.08	12	5000
		10x12.5	528	0.08	12	5500
	390	8x8	624	0.08	12	4500
		8x11.5	624	0.08	12	5000
		10x12.5	624	0.08	12	5500
	470	8x8	752	0.10	16	4500
		8x11.5	752	0.10	12	5000
		10x12.5	752	0.10	12	5500
	560	8x8	896	0.12	16	4500
		8x11.5	896	0.10	12	5000
10x12.5		896	0.10	12	5500	
680	8x11.5	1088	0.12	14	5000	
	10x12.5	1088	0.10	12	5500	
820	10x12.5	1312	0.10	12	5500	
1000	10x12.5	1600	0.10	12	5500	
1200	10x12.5	1920	0.12	12	5500	

Ripple Current(mA,rms)at 105°C,100KHz

Standard Ratings

W.V. (V)	Cap (μ F)	Size φ DxL(mm)	L.C. (μ A,2min)	tg δ (120Hz,20°C)	ESR (mΩ),100KHz)	Maximum Permissible Ripple Current(mA,r.m.s)
20	39	8x8	156	0.08	25	3500
		8x11.5	156	0.08	20	3800
	47	8x8	188	0.08	25	3500
		8x11.5	188	0.08	20	3800
	68	8x8	272	0.08	25	3500
		8x11.5	272	0.08	20	4100
	82	8x8	328	0.08	20	3800
		8x11.5	328	0.08	20	4100
	100	8x8	400	0.08	18	3900
		8x11.5	400	0.08	18	4200
		10x12.5	400	0.08	18	4500
	150	8x8	600	0.08	18	3900
		8x11.5	600	0.08	18	4200
		10x12.5	600	0.08	18	4500
	180	8x8	720	0.08	18	3900
		8x11.5	720	0.08	18	4200
		10x12.5	720	0.08	18	4500
	220	8x8	880	0.08	18	3900
		8x11.5	880	0.08	18	4200
		10x12.5	880	0.08	18	4500
270	8x11.5	1080	0.08	15	4500	
	10x12.5	1080	0.08	15	4900	
330	8x11.5	1320	0.08	15	4500	
	10x12.5	1320	0.08	15	4900	
390	8x11.5	1560	0.08	15	4500	
	10x12.5	1560	0.08	15	4900	
470	10x12.5	1880	0.08	15	4900	
560	10x12.5	2240	0.10	20	4500	
680	10x12.5	2720	0.10	20	4500	
820	10x12.5	3280	0.12	20	4500	
1000	10x12.5	2000	0.12	20	4500	
25	39	8x8	195	0.08	25	3500
		8x11.5	195	0.08	20	3800
	47	8x8	235	0.08	25	3500
		8x11.5	235	0.08	20	3800
	68	8x8	340	0.08	25	3500
		8x11.5	340	0.08	20	4100
	82	8x8	410	0.08	20	3800
		8x11.5	410	0.08	20	4100
	100	8x8	500	0.08	20	3900
		8x11.5	500	0.08	20	4200
		10x12.5	500	0.08	20	4500
	150	8x8	750	0.08	20	3900
		8x11.5	750	0.08	20	4200
		10x12.5	750	0.08	20	4500
	180	8x8	900	0.08	20	3900
		8x11.5	900	0.08	20	4200
		10x12.5	900	0.08	20	4500
	220	8x8	1100	0.08	20	3900
		8x11.5	1100	0.08	20	4200
		10x12.5	1100	0.08	20	4500
270	8x11.5	1350	0.08	18	4400	
	10x12.5	1350	0.08	18	4800	
330	8x11.5	1650	0.08	18	4400	
	10x12.5	1650	0.08	18	4800	
390	10x12.5	1950	0.08	20	4500	
470	10x12.5	2350	0.08	20	4500	
560	10x12.5	2800	0.10	20	4500	
680	10x12.5	3400	0.12	20	4500	
820	10x12.5	2050	0.12	20	4500	