PW series

Features

◆ Low height
◆ Low ESR at high frequency range.

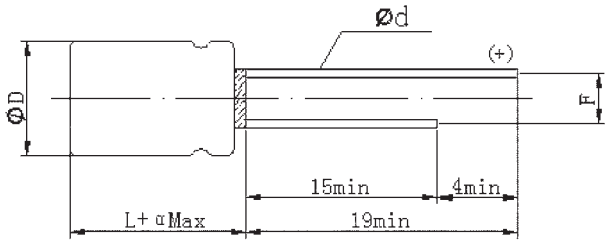
Specifications

Item	Performance Characteristics	
Operating Temp. Range	-55℃～+105℃	
Rated Voltage Range	2.5～25V DC	
Capacitance Range	39 to 2500μF	
Capacitance Tolerance	±20%（120Hz，+20℃）	
Leakage Current（+20℃，max）	Not to exceed the values shown in Standard Ratings （Rated voltage applied, after 2 minutes at 20℃）	
Dissipation Factor (tanδ，at 20℃，120Hz)	Not to exceed the values shown in Standard Ratings	
ESR（at 100KHz，20℃）	Not to exceed the values shown in Standard Ratings	
Endurance 105℃，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℃，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)



ϕDxL	ϕD+0.5max.	α	F±0.5	ϕd±0.05
8x7	8.0	1.0	3.5	0.6
10x7	10.0	1.5	5.0	0.6
10x10	10.0	1.5	5.0	0.6

Standard Ratings

W.V. (V)	Cap(μF)	Size φDxL(mm)	L.C. (μA,2min)	tgδ (120Hz,20℃)	ESR (mΩ),100KHz)	Maximum Permissible Ripple Current(mA,r.m.s)
2.5	820	8x7	410	0.08	20	3700
	1000	8x7	500	0.08	20	3700
	1200	10x7	600	0.08	15	4200
	1500	10x7	750	0.10	15	4200
	1800	10x7	900	0.10	15	4200
		10x10	900	0.10	12	4500
	2000	10x7	1000	0.10	15	4200
		10x10	1000	0.10	12	4500
	2500	10x10	1250	0.10	12	4500
4	560	8x7	448	0.08	20	3700
	680	8x7	544	0.08	20	3700
	820	8x7	656	0.08	20	3700
		10x7	656	0.08	15	4200
	1000	10x7	800	0.10	15	4200
	1200	10x7	960	0.10	15	4200
		10x10	960	0.10	12	4500
	1500	10x7	1200	0.10	15	4200
		10x10	1200	0.10	12	4500
	1800	10x10	1440	0.10	12	4500
6.3	470	8x7	592	0.08	20	3700
	560	8x7	705.6	0.08	20	3700
	680	8x7	856.8	0.08	20	3700
	820	8x7	1033.2	0.10	20	3700
		10x7	1033.2	0.10	15	4200
	1000	10x7	1260	0.10	15	4200
		10x10	1260	0.10	12	4500
	1200	10x7	1512	0.10	15	4200
		10x10	1512	0.10	12	4500
	1500	10x10	1890	0.10	12	4500
10	330	8x7	660	0.08	20	3700
	390	8x7	780	0.08	20	3700
	470	8x7	940	0.08	20	3700
		10x7	940	0.08	15	4200
	560	10x7	1120	0.08	15	4200
		10x10	1120	0.08	12	4500
	680	10x7	1360	0.10	15	4200
		10x10	1360	0.10	12	4500
	820	10x7	1640	0.10	15	4200
		10x10	1640	0.10	12	4500
	1000	10x10	2000	0.10	12	4500
16	180	8x7	576	0.08	20	3300
	220	8x7	704	0.08	20	3300
	270	8x7	864	0.08	20	3300
		10x7	864	0.08	20	3700
	330	8x7	1056	0.10	20	3300
		10x7	1056	0.10	20	3700
		10x10	1056	0.10	15	4200
	390	10x7	1248	0.10	20	3700
		10x10	1248	0.10	20	4200
	470	10x7	1504	0.10	20	3700
		10x10	1504	0.10	15	4200
	560	10x10	1792	0.10	15	4200

Ripple Current(mA,rms)at 105℃,100KHz

W.V. (V)	Cap(μF)	Size φDxL(mm)	L.C. (μA,2min)	tgδ (120Hz,20℃)	ESR (mΩ),100KHz)	Maximum Permissible Ripple Current(mA,r.m.s)
20	56	8x7	224	0.08	25	3000
	68	8x7	272	0.08	25	3000
	82	8x7	328	0.08	25	3000
		10x7	328	0.08	25	3400
	100	8x7	400	0.08	25	3000
		10x7	400	0.08	25	3400
		10x10	400	0.08	20	3800
	150	8x7	600	0.08	25	3000
		10x7	600	0.08	25	3400
		10x10	600	0.08	20	3800
	180	8x7	720	0.08	25	3000
		10x7	720	0.08	25	3400
		10x10	720	0.08	20	3800
	220	10x7	880	0.10	25	3400
		10x10	880	0.10	20	3800
	270	10x7	1080	0.10	25	3400
		10x10	1080	0.10	20	3800
	330	10x10	1320	0.10	20	3800
25	39	8x7	195	0.08	25	3000
	47	8x7	235	0.08	25	3000
	56	8x7	280	0.08	25	3000
	68	8x7	340	0.08	25	3000
		10x7	340	0.08	25	3400
	82	8x7	410	0.08	25	3000
		10x7	410	0.08	25	3400
		10x10	410	0.08	20	3800
	100	10x7	500	0.10	25	3400
		10x10	500	0.10	20	3800
	120	10x7	600	0.10	25	3400
		10x10	600	0.10	20	3800
	150	10x7	750	0.10	25	3400
		10x10	750	0.10	20	3800
	180	10x10	900	0.10	20	3800

Ripple Current(mA,rms)at 105℃,100KHz