

PU series Ultra Low ESR $\leq 7m\Omega$

Features

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



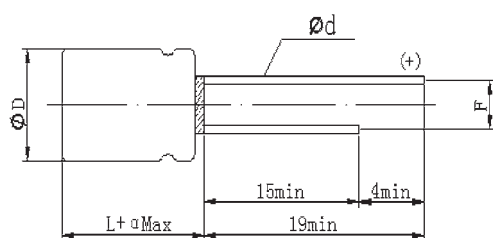
Specifications

Item	Performance Characteristics	
Operating Temperature Range	-55°C~+105°C	
Rated Voltage Range	2.5~10 VDC	
Capacitance Range	180 to 3900 μ F	
Capacitance Tolerance	$\pm 20\%$ (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 $\pm 20\%$ 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 $\pm 20\%$ 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 \leq freq. < 1KHz	1KHz \leq freq. < 10KHz	10KHz \leq freq. < 100KHz	100KHz \leq 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	7	6100
		8x11.5	280	0.08	7	6100
	680	8x8	340	0.08	7	6100
		8x11.5	340	0.08	7	6100
	820	8x8	410	0.08	7	6100
		8x11.5	410	0.08	7	6100
	1000	8x8	500	0.08	7	6100
		8x11.5	500	0.08	7	6100
	1200	8x8	600	0.08	7	6100
		8x11.5	600	0.08	7	6100
	1500	8x8	750	0.08	7	6100
		8x11.5	750	0.08	7	6100
		10x12.5	750	0.08	7	7100
	2000	8x11.5	1000	0.08	7	6100
		10x12.5	1000	0.08	7	7100
	2200	8x11.5	1100	0.08	7	6700
2500	10x12.5	1250	0.08	7	7100	
2700	10x12.5	1350	0.08	7	7100	
3000	10x12.5	1500	0.08	7	7100	
3300	10x12.5	1650	0.08	7	7100	
3500	10x12.5	1750	0.08	7	7100	
3900	10x12.5	1950	0.08	7	7100	
4	560	8x8	224	0.08	7	6100
		8x11.5	224	0.08	7	6100
	680	8x8	272	0.08	7	6100
		8x11.5	272	0.08	7	6100
	820	8x8	328	0.08	7	6100
		8x11.5	328	0.08	7	6100
		10x12.5	328	0.08	7	6600
	1000	8x8	800	0.08	7	6100
		8x11.5	800	0.08	7	6100
		10x12.5	800	0.08	7	6600
	1200	8x11.5	960	0.08	7	6100
		10x12.5	960	0.08	7	6600
	1500	8x11.5	1200	0.10	7	6100
		10x12.5	1200	0.10	7	6600
	1800	10x12.5	1440	0.10	7	6600
	2000	10x12.5	1600	0.10	7	6600
2200	10x12.5	1760	0.10	7	6600	
2500	10x12.5	2000	0.10	7	6600	
2700	10x12.5	2160	0.10	7	6600	

Ripple Current(mA,rms)at 105°C,100KHz

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	180	8x8	113.4	0.10	7	6100
		8x11.5	113.4	0.10	7	6100
	220	8x8	138.6	0.10	7	6100
		8x11.5	138.6	0.10	7	6100
	270	8x8	170.1	0.10	7	6100
		8x11.5	170.1	0.10	7	6100
	330	8x8	207.9	0.10	7	6100
		8x11.5	207.9	0.10	7	6100
	390	8x8	245.7	0.10	7	6100
		8x11.5	245.7	0.10	7	6100
	470	8x8	296.1	0.10	7	6100
		8x11.5	296.1	0.10	7	6100
	560	8x8	352.8	0.08	7	6100
		8x11.5	352.8	0.08	7	6100
	680	8x8	428.4	0.08	7	6100
		8x11.5	428.4	0.08	7	6600
		10x12.5	428.4	0.08	7	6600
	820	8x8	516.6	0.10	7	6100
		8x11.5	516.6	0.10	7	6600
		10x12.5	516.6	0.10	7	6600
1000	8x8	630	0.10	7	6200	
	8x11.5	630	0.10	7	7100	
	10x12.5	756	0.10	7	7100	
1200	8x11.5	756	0.10	7	7100	
	10x12.5	756	0.10	7	7100	
1500	10x12.5	945	0.10	7	7100	
1800	10x12.5	1134	0.10	7	7100	
2000	10x12.5	1260	0.10	7	7100	
2500	10x12.5	1575	0.10	7	7100	
10	180	8x11.5	180	0.08	7	6600
	220	8x11.5	220	0.08	7	6600
	270	8x11.5	270	0.08	7	6600
	330	8x11.5	330	0.08	7	6600
	390	8x11.5	390	0.08	7	6600
	470	8x11.5	470	0.08	7	6600
		10x12.5	470	0.08	7	6600
	560	8x11.5	560	0.08	7	6600
		10x12.5	560	0.08	7	6600
	680	8x11.5	680	0.10	7	6600
		10x12.5	680	0.10	7	6600
	820	8x11.5	820	0.10	7	7100
		10x12.5	820	0.10	7	7100
	1000	10x12.5	1000	0.10	7	7100
1200	10x12.5	1200	0.10	7	7100	
1500	10x12.5	1500	0.10	7	7100	

Ripple Current(mA,rms)at 105°C,100KHz