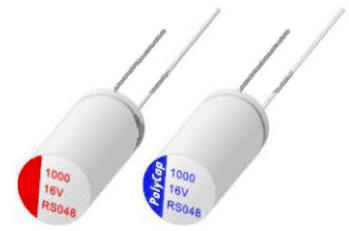


RS series Low ESR & High Ripple Current



- Low ESR, High ripple current
 - Load life of 2000 hours at 105°C
 - Compliant to the RoHS2.0 directive
 - Suitable for Quick charging, DC-DC Converter, Voltage Regulators, Motherboard, Server Board, VGA
- 具有低 ESR 和大纹波电流, 产品满足 RoHS2.0 指令, 适用于快充、DC-DC 转换器、电压调节器、计算机主板和显卡等。

◇ Specifications

Items	Characteristics	
Operating Temp. Range	-55°C ~ +105°C	
Capacitance Range	100 ~ 1800µF	
Capacitance Tolerance	M : ±20%	
Rated Voltage Range	16V ~ 25V DC	
Dissipation Factor	Not to exceed the value specified	
Leakage Current	Not to exceed the value specified (after 2 minutes)	
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
	Dissipation Factor	Not to exceed 150% of the value specified
	ESR	Not to exceed 150% of the value specified
	Leakage current	Not to exceed the value specified
Moisture Resistance Stored at 80°C · RH90~95% · 1000h	Capacitance Change	Within ±20% of the value before test
	Dissipation Factor	Not to exceed 150% of the value specified
	ESR	Not to exceed 150% of the value specified
	Leakage Current	Not to exceed the value specified

◇ Dimensions (Unit:mm)

Φ6.3mm		Φ8mm~Φ10mm													
Plastic coating Aluminum. Case		Plastic coating Aluminum. Case													
ΦD+0.5max.	6.3	8			11.5			13			10		12.5		13
L		8	9	10	11	12	8	11.5	13	10	12.5	13			
α		1.0			1.0			1.0			1.0				
F±0.5		2.5			3.5			5.0							
Φd±0.05		0.5			0.6										



◇ Capacitance List

SIZE \ W.V (S.V)	16 (18)	20 (23)	25 (29)		
6.3×8	220 ~ 390μF	180 ~ 270μF	100 ~ 220μF		
6.3×9	270 ~ 470μF	220 ~ 330μF	180 ~ 270μF		
6.3×10	330 ~ 560μF	270 ~ 390μF	220 ~ 330μF		
6.3×11	390 ~ 680μF	330 ~ 470μF	270 ~ 390μF		
6.3×12	390 ~ 680μF	330 ~ 470μF	270 ~ 470μF		
8×8	270 ~ 560μF	270 ~ 470μF	220 ~ 390μF		
8×11.5	390 ~ 820μF	330 ~ 680μF	270 ~ 560μF		
8×13	560 ~ 1200μF	470 ~ 820μF	390 ~ 680μF		
10×10	470 ~ 1000μF	330 ~ 680μF	330 ~ 560μF		
10×12.5	680 ~ 1500μF	470 ~ 1000μF	470 ~ 820μF		
10×13	820 ~ 1800μF	680 ~ 1200μF	560 ~ 1000μF		

◇ Characteristics List

W.V. (V)	Capacitance (μF)	L.C. (μA,2min)	tgδ (120Hz,20°C)	ESR (mΩ,100kHz)	Rated Ripple Current(mA,r.m.s)	Size ΦD×L(mm)	Part Number
16	270	432	0.10	15	3400	6.3×8	PRS271M016E08□□□□□□
	330	528	0.10	15	3500	6.3×9	PRS331M016E09□□□□□□
	470	752	0.10	12	3800	6.3×10	PRS471M016E10□□□□□□
	560	896	0.10	12	4000	6.3×11	PRS561M016E11□□□□□□
	680	1000	0.10	12	4200	6.3×12	PRS681M016E12□□□□□□
	330	528	0.10	12	4100	8×8	PRS331M016F08□□□□□□
	470	752	0.10	12	4800	8×11.5	PRS471M016F1A□□□□□□
	1000	1000	0.10	10	5400	8×13	PRS102M016F13□□□□□□
	470	752	0.10	12	5100	10×10	PRS471M016G10□□□□□□
	1000	1000	0.10	10	5400	10×12.5	PRS102M016G1B□□□□□□
20	1500	1000	0.10	10	5500	10×13	PRS152M016G13□□□□□□
	220	440	0.10	15	3400	6.3×8	PRS221M020E08□□□□□□
	330	660	0.10	15	3500	6.3×9	PRS331M020E09□□□□□□
	330	660	0.10	12	3800	6.3×10	PRS331M020E10□□□□□□
	390	780	0.10	12	4000	6.3×11	PRS391M020E11□□□□□□
	470	940	0.10	12	4200	6.3×12	PRS471M020E12□□□□□□
	470	940	0.10	12	4100	8×8	PRS471M020F08□□□□□□
	560	1000	0.10	12	4800	8×11.5	PRS561M020F1A□□□□□□
	680	1000	0.10	10	5400	8×13	PRS681M020F13□□□□□□
	560	1000	0.10	12	5100	10×10	PRS561M020G10□□□□□□
25	820	1000	0.10	10	5400	10×12.5	PRS821M020G1B□□□□□□
	1200	1000	0.10	10	5500	10×13	PRS122M020G13□□□□□□
	100	250	0.10	20	3200	6.3×8	PRS101M025E08□□□□□□
	220	550	0.10	20	3300	6.3×9	PRS221M025E09□□□□□□
	330	825	0.10	18	3600	6.3×10	PRS331M025E10□□□□□□
	390	975	0.10	15	3900	6.3×11	PRS391M025E11□□□□□□
	470	1000	0.10	15	4100	6.3×12	PRS471M025E12□□□□□□
	330	825	0.10	15	3900	8×8	PRS331M025F08□□□□□□
	470	1000	0.10	15	4600	8×11.5	PRS471M025F1A□□□□□□
	680	300	0.10	12	5700	8×13	PRS681M025F13□□□□□□
25	470	1000	0.10	15	4900	10×10	PRS471M025G10□□□□□□
	820	1000	0.10	12	5200	10×12.5	PRS821M025G1B□□□□□□
	1000	300	0.10	12	6100	10×13	PRS102M025G13□□□□□□

* For the last 6 digits of the part number, please refer to the part number system on page 125.

✧ Frequency Coefficient for Ripple Current

Frequency	120Hz≤freq.<1KHz	1KHz≤freq.<10KHz	10KHz≤freq.<50KHz	50KHz≤freq.<100KHz	100KHz≤freq.<300KHz
Coefficient (C≤1000μF)	0.05	0.3	0.7	0.85	1
Coefficient (C>1000μF)	0.1	0.33	0.85	1	1