

RS series

Features

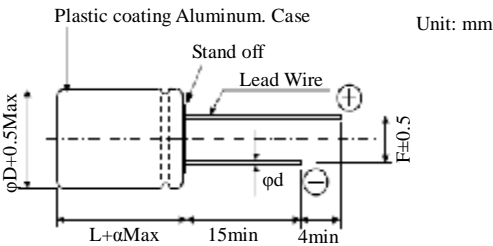
- ◆ Super low ESR , Large ripple current to 2000 hours at 105℃.
- ◆ Suitable for use with DC-DC converts, voltage regulators, motherboard, servers, VGA, etc.
- ◆ Lead free-flow is supported.
- ◆ RoHS Compliant.



Specifications

Items	Characteristics	
Operating Temp. Range	-55℃ ~ +105℃	
Capacitance Range	22 ~ 820μF	
Capacitance Tolerance	M : ±20%	
Rated Voltage Range	16V ~ 25V dc	
Dissipation Factor (at 120Hz, 20℃)	Not to exceed the value specified	
Leakage Current	≤0.2CV (μA, after 2 minutes)	
ESR (100K~300KHz)	Not to exceed the value specified	
Endurance 105℃ , 2000h , at rated voltage	Capacitance	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% , 2000h	Capacitance	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

Dimensions



φD×L	ΦD +0.5max.	α	F ±0.5	Φd ±0.05
6.3×8	6.3	1.0	2.5	0.6
6.3×11	6.3	1.0	2.5	0.6
8×8	8.0	1.0	3.5	0.6
8×11.5	8.0	1.0	3.5	0.6
10×12.5	10.0	1.0	5.0	0.6

Size List

RV/v (SV) CAP/μF	16 (18.4)	20 (23)	25 (27.5)
22			6.3×8
33		6.3×8	6.3×8
39		6.3×8	6.3×8
47	6.3×8	6.3×8/ 8×8	6.3×8/ 8×8
68	6.3×8	6.3×11/ 8×8	6.3×11/8×8
82	6.3×8	6.3×11/ 8×8	6.3×11/8×8
100	6.3×8	6.3×11/ 8×8/8×11.5	6.3×11/8×8/ 8×11.5
150	6.3×8 /8×8	8×8/8×11.5	8×11.5/10×12.5
180	6.3×8 /6.3×11/8×8	8×11.5/10×12.5	10×12.5
220	6.3×11/8×8/8×11.5	8×11.5/10×12.5	10×12.5
270	6.3×11/8×8/8×11.5	10×12.5	10×12.5
330	8×8/8×11.5 / 10×12.5	10×12.5	10×12.5
470	8×11.5 / 10×12.5	10X12.5	
560	10×12.5		
680	10×12.5		
820	10×12.5		

Characteristics List

W.V. (V)	Capacitance (μ F)	L.C. (μ A, 2min)	tg δ (120Hz, 20°C)	ESR (m Ω , 100kHz)	Rated Ripple Current(mA, r.m.s)	Size Φ D×L (mm)	Part Number
16	47	300	0.10	18	2900	6.3×8	RS470M016E080□□
	68	300	0.10	18	2900	6.3×8	RS680M016E080□□
	82	300	0.10	18	2900	6.3×8	RS820M016E080□□
	100	320	0.10	15	2900	6.3×8	RS101M016E080□□
	150	480	0.10	15	2900	6.3×8	RS151M016E080□□
	150	480	0.10	12	4100	8×8	RS151M016F080□□
	180	576	0.10	15	2900	6.3×8	RS181M016E080□□
	180	576	0.10	13	3500	6.3×11	RS181M016E110□□
	180	576	0.10	12	4100	8×8	RS181M016F080□□
	220	704	0.12	13	3500	6.3×11	RS221M016E110□□
	220	704	0.12	12	4500	8×8	RS221M016F080□□
	220	704	0.12	11	4800	8×11.5	RS221M016F115□□
	270	864	0.12	13	3500	6.3×11	RS271M016E110□□
	270	864	0.12	12	4500	8×8	RS271M016F080□□
	270	864	0.12	11	4800	8×11.5	RS271M016F115□□
	330	1056	0.12	12	4500	8×8	RS331M016F080□□
	330	1056	0.12	11	4800	8×11.5	RS331M016F115□□
	330	1056	0.12	11	5100	10×12.5	RS331M016G125□□
	470	1504	0.12	11	4800	8×11.5	RS471M016F115□□
	470	1504	0.12	11	5100	10×12.5	RS471M016G125□□
	560	1792	0.12	11	5100	10×12.5	RS561M016G125□□
	680	2176	0.12	11	5100	10×12.5	RS681M016G125□□
	820	2624	0.12	11	5100	10×12.5	RS821M016G125□□
20	33	300	0.10	25	2100	6.3×8	RS330M020E080□□
	39	300	0.10	25	2100	6.3×8	RS390M020E080□□
	47	300	0.10	25	2100	6.3×8	RS470M020E080□□
	47	300	0.10	18	3500	8×8	RS470M020F080□□
	68	300	0.10	20	2900	6.3×11	RS680M020E110□□
	68	300	0.10	18	3500	8×8	RS680M020F080□□
	82	328	0.10	20	2900	6.3×11	RS820M020E110□□
	82	328	0.12	18	3500	8×8	RS820M020F080□□
	100	400	0.10	20	2900	6.3×11	RS101M020E110□□
	100	400	0.12	18	3500	8×8	RS101M020F080□□
	100	400	0.12	15	4100	8×11.5	RS101M020F115□□
	150	600	0.12	18	3500	8×8	RS151M020F080□□
	150	600	0.12	15	4100	8×11.5	RS151M020F115□□
	180	720	0.12	15	4100	8×11.5	RS181M020F115□□
	180	720	0.12	15	4900	10×12.5	RS181M020G125□□
	220	880	0.12	15	4100	8×11.5	RS221M020F115□□
	220	880	0.12	15	4900	10×12.5	RS221M020G125□□
	270	1080	0.12	15	4900	10×12.5	RS271M020G125□□
	330	1320	0.12	15	4900	10×12.5	RS331M020G125□□
	470	1880	0.12	15	4900	10×12.5	RS471M020G125□□

Characteristics List

W.V. (V)	Capacitance (μF)	L.C. (μA,2min)	tgδ (120Hz,20℃)	ESR (mΩ,100kHz)	Rated Ripple Current(mA,r.m.s)	Size ΦD×L (mm)	Part Number
25	22	300	0.10	25	2100	6.3×8	RS220M025E080□□
	33	300	0.10	25	2100	6.3×8	RS330M025E080□□
	39	300	0.10	25	2100	6.3×8	RS390M025E080□□
	47	300	0.10	25	2100	6.3×8	RS470M025E080□□
	47	300	0.10	18	3500	8×8	RS470M025F080□□
	68	340	0.10	20	2900	6.3×11	RS680M025E110□□
	68	340	0.12	18	3500	8×8	RS680M025F080□□
	82	410	0.10	20	2900	6.3×11	RS820M025E110□□
	82	410	0.12	18	3500	8×8	RS820M025F080□□
	100	500	0.12	20	2900	6.3×11	RS101M025E110□□
	100	500	0.12	18	3500	8×8	RS101M025F080□□
	100	500	0.12	15	4100	8×11.5	RS101M025F115□□
	150	750	0.12	15	4100	8×11.5	RS151M025F115□□
	150	750	0.12	15	4900	10×12.5	RS151M025G125□□
	180	900	0.12	15	4900	10×12.5	RS181M025G125□□
	220	1100	0.12	15	4900	10×12.5	RS221M025G125□□
	270	1350	0.12	15	4900	10×12.5	RS271M025G125□□
	330	1650	0.12	15	4900	10×12.5	RS331M025G125□□

Frequency Coefficient for Ripple Current

Frequency	120Hz≤freq.<1KHz	1KHz≤freq.<10KHz	10KHz≤freq.<100KHz	100KHz≤freq.<300KHz
Coefficient	0.05	0.30	0.70	1.00