

RQ series

125°C Guaranteed

This series has advanced characteristics in resistance to heat compared with the RG series. Suitable for use in increasing device reliability.

Lead free-flow is supported.

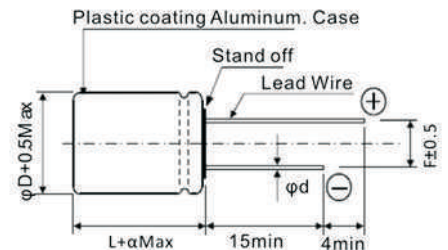
RQ系列具有優異的熱穩定性，可承受125°C環境溫度，適合用於提高電子設備的可靠度。



Specifications

Items	Characteristics	
Operating Temp. Range	-55°C ~ +125°C	
Capacitance Range	100 ~ 2700μF	
Capacitance Tolerance	M: ±20%	
Rated Voltage Range	2.5V ~ 16V DC	
Dissipation Factor At 120Hz, 20°C	Not to exceed the value specified	
Leakage Current	≤0.02CV (μA, after 2 minutes)	
ESR(100K~300KHz)	Not to exceed the value specified	
Endurance 125°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%, 2000h	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

Dimensions



Unit:mm

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

CAP/μF	RV/v (SV)	2.5 (2.8)	4 (4.6)	6.3 (7.2)	10 (11.5)	16 (18.4)
100						6.3×8
180						6.3×8
220						6.3×11
270						8×8/8×11.5
330						8×11.5 / 10×12.5
390						8×11.5 / 10×12.5
470				6.3×8	8×8	8×11.5 / 10×12.5
560			6.3×8	6.3×8/8×8	8×8	10×12.5
680			8×8	6.3×8/8×8	8×11.5	10×12.5
820		6.3×8	8×8	8×8/8×11.5	8×11.5 / 10×12.5	10×12.5
1000		8×8	8×8	8×8/8×11.5	10×12.5	
1200		8×8	8×11.5 / 10×12.5	8×11.5 / 10×12.5	10×12.5	
1500		8×11.5	10×12.5	10×12.5		
2000		10×12.5	10×12.5			
2500		10×12.5				
2700		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		Size Φ D \times L(mm)	Part Number
					100KHz(mA,r.m.s)			
					105°C<T \le 125°C	T \le 105°C		
2.5	820	410	0.08	8	1770	5600	6.3 \times 8	RQ821M2R5E080□□
	1200	600	0.08	7	1929	6100	8 \times 8	RQ122M2R5F080□□
	1500	750	0.08	7	1929	6100	8 \times 11.5	RQ152M2R5F115□□
	2000	1000	0.08	7	2100	6640	10 \times 12.5	RQ202M2R5G125□□
	2500	1250	0.08	7	2100	6640	10 \times 12.5	RQ252M2R5G125□□
	2700	1350	0.08	7	2100	6640	10 \times 12.5	RQ272M2R5G125□□
4	560	448	0.08	8	1770	5600	6.3 \times 8	RQ561M004E080□□
	680	544	0.08	7	1929	6100	8 \times 8	RQ681M004F080□□
	820	656	0.08	7	1929	6100	8 \times 8	RQ821M004F080□□
	1000	800	0.08	7	1929	6100	8 \times 8	RQ102M004F080□□
	1200	960	0.08	7	1929	6100	8 \times 11.5	RQ122M004F115□□
	1200	960	0.08	7	2100	6640	10 \times 12.5	RQ122M004G125□□
	1500	1200	0.08	7	2100	6640	10 \times 12.5	RQ152M004G125□□
	2000	1600	0.08	7	2100	6640	10 \times 12.5	RQ202M004G125□□
6.3	470	592.2	0.08	8	1770	5600	6.3 \times 8	RQ471M6R3E080□□
	560	705.6	0.08	8	1770	5600	6.3 \times 8	RQ561M6R3E080□□
	680	856.8	0.08	8	1770	5600	6.3 \times 8	RQ681M6R3E080□□
	820	1033.2	0.10	7	1929	6100	8 \times 8	RQ821M6R3F080□□
	820	1033.2	0.10	7	1929	6100	8 \times 11.5	RQ821M6R3F115□□
	1000	1260	0.10	7	1929	6100	8 \times 8	RQ102M6R3F080□□
	1000	1260	0.10	7	1929	6100	8 \times 11.5	RQ102M6R3F115□□
	1200	1512	0.10	7	2100	6640	10 \times 12.5	RQ122M6R3G125□□
10	1500	1890	0.10	7	2100	6640	10 \times 12.5	RQ152M6R3G125□□
	470	940	0.08	7	1929	6100	8 \times 8	RQ471M010F080□□
	560	1120	0.10	7	1929	6100	8 \times 8	RQ561M010F080□□
	680	1360	0.10	7	1929	6100	8 \times 11.5	RQ681M010F115□□
	820	1640	0.10	7	1929	6100	8 \times 11.5	RQ821M010F115□□
	820	1640	0.10	7	2100	6640	10 \times 12.5	RQ821M010G125□□
	1000	2000	0.10	7	2100	6640	10 \times 12.5	RQ102M010G125□□
	1200	2400	0.10	7	2100	6640	10 \times 12.5	RQ122M010G125□□
16	100	320	0.12	12	920	2900	6.3 \times 8	RQ101M016E080□□
	180	576	0.12	13	920	2900	6.3 \times 8	RQ181M016E080□□
	220	704	0.12	13	1106	300	6.3 \times 11	RQ221M016E110□□
	270	864	0.12	13	1771	5600	8 \times 11.5	RQ271M016F115□□
	330	1056	0.12	13	1771	5600	8 \times 11.5	RQ331M016F115□□
	330	1056	0.12	12	1929	6100	10 \times 12.5	RQ331M016G125□□
	390	1248	0.12	13	1771	5600	8 \times 11.5	RQ391M016F115□□
	390	1248	0.12	12	1929	6100	10 \times 12.5	RQ391M016G125□□
	470	1504	0.12	13	1771	5600	8 \times 11.5	RQ471M016F115□□
	470	1504	0.12	12	1929	6100	10 \times 12.5	RQ471M016G125□□
	560	1792	0.12	12	1929	6100	10 \times 12.5	RQ561M016G125□□
	680	2176	0.12	12	1929	6100	10 \times 12.5	RQ681M016G125□□
820	2624	0.12	12	1929	6100	10 \times 12.5	RQ821M016G125□□	

Frequency Coefficient for Ripple Current

Frequency	120Hz \le freq.<1KHz	1KHz \le freq.<10KHz	10KHz \le freq.<100KHz	100KHz \le freq.<300KHz
Coefficient	0.05	0.3	0.7	1