

RCS High Capacitance,,
load life of 125°C 5000H



FPCAP **NEW**



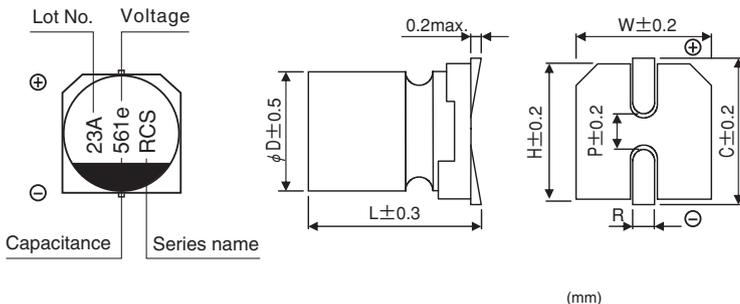
- High Capacitance, High ripple current.
- 85°C 85% 1000H; Load life of 5000 hours at 125°C.
- SMD type : Lead free reflow soldering condition at 260°C peak correspondence.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).

■ Specifications

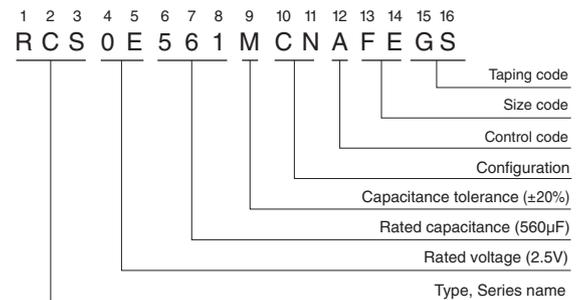
Item	Performance Characteristics	
Category Temperature Range	-55 to +125°C	
Rated Voltage Range	2.5 to 16V	
Rated Capacitance Range	33 to 820µF	
Capacitance Tolerance	±20% at 120Hz, 20°C	
Tangent of loss angle (tan δ)	Less than or equal to the specified value at 120Hz, 20°C	
ESR (※ 1)	Less than or equal to the specified value at 100kHz, 20°C	
Leakage Current (※ 2)	After 2 minutes' application of rated voltage, leakage current is not more than 0.3CV or 700(µA), whichever is greater. ※	
Endurance	Test condition	125°C, rated voltage, 5000Hrs
	Capacitance change	Within ±20% of initial value before test
	tan δ	150% or less than the initial specified value
	ESR (※ 1)	150% or less than the initial specified value
	Leakage current (※ 2)	Less than or equal to the specified value
Damp Heat (Steady State)	Test condition	Capacitors are restored to 20°C after the rated voltage is applied for 1K hours at 85°C85% RH.
	Capacitance change	Within ±20% of initial value before test
	tan δ	150% or less than the initial specified value
	ESR (※ 1)	200% or less than the initial specified value
	Leakage current (※ 2)	Less than or equal to the specified value

※ 1 ESR should be measured at both of the terminal ends closest where the terminals protrude through the plastic platform. ※ I : Leakage Current (µA), C : Rated Capacitance (µF), V : Rated Voltage (V)
 ※ 2 Conditioning : If any doubt arises, measure the leakage current after the voltage treatment of applying DC rated voltage continuously to the capacitor for 120 minutes at 105°C.

■ Dimensions



Type numbering system (Example : 2.5V 560µF)



Size Code	φD×L	W	H	C	R	P
FE	6.3×5.8	6.5	6.5	7.2	0.5 to 0.9	2.1
HF	8×6.8	8.3	8.3	9.0	0.8 to 1.1	3.2

● Frequency coefficient of rated ripple current

Frequency	120 Hz	1 kHz	10 kHz	100 kHz	300 kHz or more
Coefficient	0.10	0.45	0.50	1.00	1.00

RCS

■ Dimensions

Rated Voltage (V) (code)	Surge Voltage (V)	Rated Capacitance (μF)	Case Size φD×L (mm)	tan δ	Leakage Current (μA) (at 20°C after 2 minutes)	ESR (mΩ) (20°C/100kHz)	Rated Ripple Current (mArms/100kHz)		Part Number
							≤105°C (*3)	105°C< ≤125°C (*3)	
2.5 (0E)	2.8	330	6.3×5.8	0.12	700	25	2450	1050	RCS0E331MCNAFEFS
		390	6.3×5.8	0.12	700	25	2650	1250	RCS0E391MCNAFEFS
		470	6.3×5.8	0.12	700	25	2450	1050	RCS0E471MCNAFEFS
			8×6.8	0.12	700	18	4700	2250	RCS0E471MCNAHFGS
		500	6.3×5.8	0.12	700	25	2450	1050	RCS0E501MCNAFEFS
			8×6.8	0.12	700	18	4500	2050	RCS0E501MCNAHFGS
		560	6.3×5.8	0.12	700	25	2450	1050	RCS0E561MCNAFEFS
			8×6.8	0.12	700	18	4500	2050	RCS0E561MCNAHFGS
680	8×6.8	0.12	700	18	4500	2050	RCS0E681MCNAHFGS		
820	8×6.8	0.12	700	18	4500	2050	RCS0E821MCNAHFGS		
4.0 (0G)	4.6	220	8×6.8	0.12	700	18	2450	1050	RCS0G221MCNAHFGS
		270	8×6.8	0.12	700	18	2450	1050	RCS0G271MCNAHFGS
		330	6.3×5.8	0.12	700	25	2450	1050	RCS0G331MCNAFEFS
			8×6.8	0.12	700	18	2450	1050	RCS0G331MCNAHFGS
		390	6.3×5.8	0.12	700	25	2450	1050	RCS0G391MCNAFEFS
			8×6.8	0.12	700	18	2450	1050	RCS0G391MCNAHFGS
		470	8×6.8	0.12	700	18	2450	1050	RCS0G471MCNAHFGS
		500	8×6.8	0.12	700	18	2450	1050	RCS0G501MCNAHFGS
560	8×6.8	0.12	700	18	2450	1050	RCS0G561MCNAHFGS		
6.3 (0J)	7.2	82	6.3×5.8	0.12	700	25	2500	1050	RCS0J820MCNAFEFS
		100	6.3×5.8	0.12	700	25	2500	1050	RCS0J101MCNAFEFS
		120	6.3×5.8	0.12	700	25	2500	1050	RCS0J121MCNAFEFS
		150	6.3×5.8	0.12	700	25	2500	1050	RCS0J151MCNAFEFS
			8×6.8	0.12	700	18	4650	2350	RCS0J151MCNAHFGS
		180	6.3×5.8	0.12	700	25	2500	1050	RCS0J181MCNAFEFS
			8×6.8	0.12	700	18	4300	2050	RCS0J181MCNAHFGS
		220	6.3×5.8	0.12	700	25	2950	1450	RCS0J221MCNAFEFS
			8×6.8	0.12	700	18	4300	2050	RCS0J221MCNAHFGS
		270	6.3×5.8	0.12	700	25	2550	1050	RCS0J271MCNAFEFS
			8×6.8	0.12	700	18	4300	2050	RCS0J271MCNAHFGS
		330	6.3×5.8	0.12	700	25	3250	1800	RCS0J331MCNAFEFS
8×6.8	0.12		700	18	4900	2400	RCS0J331MCNAHFGS		
390	8×6.8	0.12	737	18	4300	2050	RCS0J391MCNAHFGS		
470	8×6.8	0.12	888	18	4300	2150	RCS0J471MCNAHFGS		
10 (1A)	11.5	47	6.3×5.8	0.12	700	25	3700	1800	RCS1A470MCNAFEFS
		56	6.3×5.8	0.12	700	25	3700	1800	RCS1A560MCNAFEFS
		68	6.3×5.8	0.12	700	25	3700	1800	RCS1A680MCNAFEFS
		82	6.3×5.8	0.12	700	25	3700	1800	RCS1A820MCNAFEFS
		100	6.3×5.8	0.12	700	25	3700	1800	RCS1A101MCNAFEFS
		120	6.3×5.8	0.12	700	25	3700	1800	RCS1A121MCNAFEFS
			8×6.8	0.12	700	18	4650	2450	RCS1A121MCNAHFGS
		150	6.3×5.8	0.12	700	25	3700	1800	RCS1A151MCNAFEFS
			8×6.8	0.12	700	18	4550	2250	RCS1A151MCNAHFGS
		180	6.3×5.8	0.12	700	25	3700	1800	RCS1A181MCNAFEFS
220	6.3×5.8	0.12	700	25	3700	1800	RCS1A221MCNAFEFS		

(*3) Ambient temperature of a capacitor

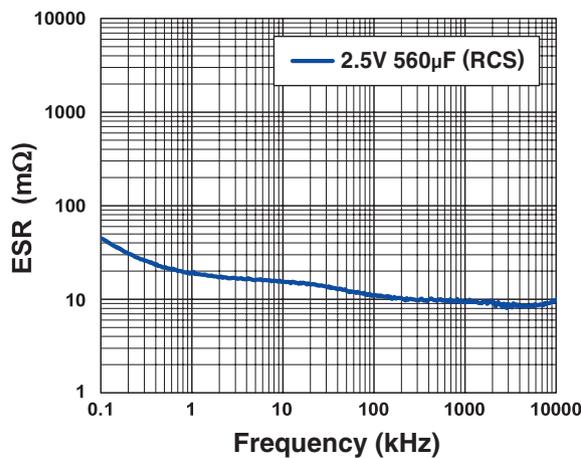
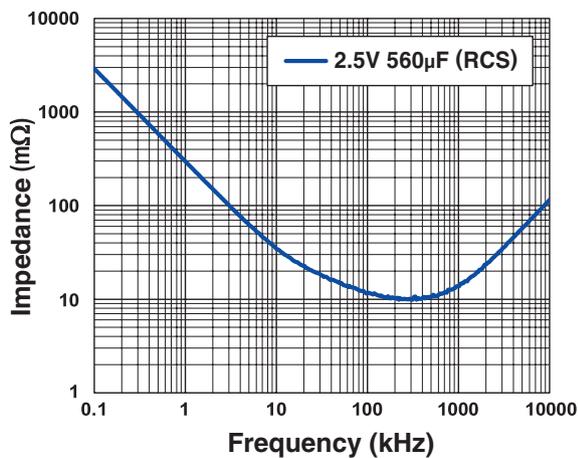
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■ Dimensions

Rated Voltage (V) (code)	Surge Voltage (V)	Rated Capacitance (μF)	Case Size φD×L (mm)	tan δ	Leakage Current (μA) (at 20°C after 2 minutes)	ESR (mΩ) (20°C/100kHz)	Rated Ripple Current (mArms/100kHz)		Part Number
							≤105°C (*3)	105°C < ≤125°C (*3)	
16 (1C)	18.4	33	6.3×5.8	0.12	700	24	3850	2100	RCS1C330MCNAFEFS
		39	6.3×5.8	0.12	700	24	3750	1800	RCS1C390MCNAFEFS
		47	6.3×5.8	0.12	700	24	3750	1800	RCS1C470MCNAFEFS
		56	6.3×5.8	0.12	700	24	3750	1800	RCS1C560MCNAFEFS
			8×6.8	0.12	700	23	4500	2450	RCS1C560MCNAHFGS
		68	6.3×5.8	0.12	700	24	3750	1800	RCS1C680MCNAFEFS
			8×6.8	0.12	700	23	3600	1800	RCS1C680MCNAHFGS
		82	6.3×5.8	0.12	700	24	3750	1800	RCS1C820MCNAFEFS
			8×6.8	0.12	700	23	3600	1800	RCS1C820MCNAHFGS
		100	6.3×5.8	0.12	700	24	3700	1850	RCS1C101MCNAFEFS
			8×6.8	0.12	700	23	3600	1800	RCS1C101MCNAHFGS
		120	6.3×5.8	0.12	700	24	3750	1800	RCS1C121MCNAFEFS
			8×6.8	0.12	700	23	3600	1800	RCS1C121MCNAHFGS
		150	6.3×5.8	0.12	720	24	3750	1800	RCS1C151MCNAFEFS
8×6.8	0.12		720	23	3600	1800	RCS1C151MCNAHFGS		
180	8×6.8	0.12	864	23	3600	1800	RCS1C181MCNAHFGS		
220	8×6.8	0.12	1056	23	3600	1800	RCS1C221MCNAHFGS		

(*3) Ambient temperature of a capacitor

■ Frequency Characteristics (The frequency characteristics are typical and not a guaranteed value.)



• For taping specifications, recommended land size/soldering by reflow and minimum order quantity, please refer to the Guidelines for Aluminum Electrolytic Capacitors.