

# SC series

- Endurance: 10,000 hours at 105°C
- Low ESR, High Ripple Current Resistant
- Recommended Applications: Automotive electronics, The base station
- Compliant to AEC-Q200
- **RoHS Compliant and lead-free**

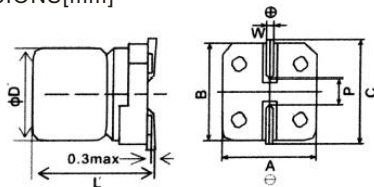
New



**SPECIFICATIONS**

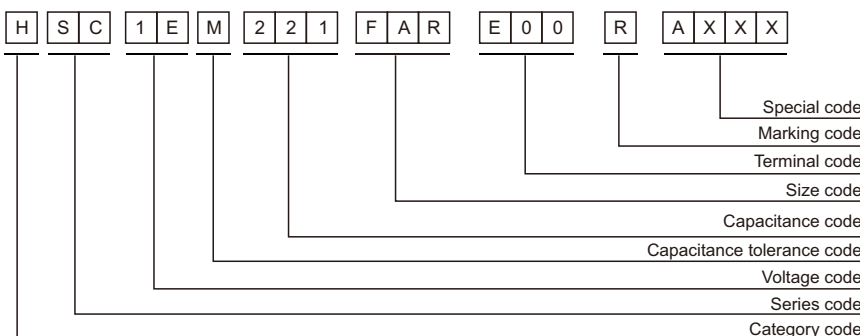
Items	Characteristics						
Category Temperature Range	-55~+105°C						
Rated Working Voltage Range	25~80 V <sub>dc</sub>						
Nominal Capacitance Range	15~470μF						
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)						
DC Leakage Current	LC=0.01CV or 3(μA), whichever is greater. Where, I: Max. leakage current (μA), C: Nominal capacitance (μF), V: Rated voltage (V) (at 20°C after 2 minutes)						
Dissipation Factor (tanδ)	Rated Voltage(V <sub>dc</sub> )	25	35	50	63	80	(at 20°C, 120Hz)
	Dissipation Factor (Max.)	0.12					
ESR(100kHz, 20°C)	Value in characteristics table						
Temperature Characteristics (Impedance Ratio at 100kHz)	Z(+125°C)/Z(+20°C)≤1.5 Z(-55°C)/Z(+20°C)≤2.0						
Endurance	After applying rated voltage with rated ripple current for 10,000 hours at 105°C±2°C, the capacitors shall meet the following requirements at normal temperature.						
	Appearance	No significant damage					
	Capacitance Change	≤±30% of the initial value					
	Dissipation Factor	≤200% of the initial specified value					
	ESR	≤200% of the initial specified value					
Leakage Current	≤The initial specified value						
High Temperature (No-Load)	The requirements for the Endurance characteristics listed above shall be satisfied when the capacitors are restored to normal temperature after storing them for 2,000 hours under no-load at 105°C±2°C.						
Humidity Resistance (On-Load)	After applying rated voltage for 2,000 hours at 85°C±2°C and 85~90%RH, the capacitors shall meet the following requirements.						
	Appearance	No significant damage					
	Capacitance Change	≤±30% of the initial value					
	Dissipation Factor	≤200% of the initial specified value					
	ESR	≤200% of the initial specified value					
Leakage Current	≤The initial specified value						

**DIMENSIONS [mm]**



Size Code	6.3	8	10
P±0.2	1.9	3.1	4.5
W±0.2	6.6	8.3	10.3
H±0.2	6.6	8.3	10.3
C±0.2	7.2	9.0	11.0
W	0.5~0.8	0.7~1.1	0.7~1.1
ØD'	ØD-0.1~+0.5		
L'	L±0.5		

**PART NUMBERING SYSTEM**



# SC series

■ STANDARD RATINGS

WV (Vdc)	Cap (μF)	Size ΦDxL(mm)	ESR (mΩ, 20°C, 100kHz) (max.)	Rated ripple current (mA <sub>rms</sub> /105°, 100kHz)	Leakage Current (μA)(max.)	Part Number
25	100	6.3×9	35	1800	25	HSC1EM101E09E00RAXXX
	220	8×10.5	27	2100	55	HSC1EM221FARE00RAXXX
	330	10×10.5	25	2300	82.5	HSC1EM331GARE00RAXXX
	470	10×10.5	20	2500	117.5	HSC1EM471GARE00RAXXX
35	47	6.3×9	40	1300	16.5	HSC1VM470E09E00RAXXX
	68	6.3×9	40	1500	23.8	HSC1VM680E09E00RAXXX
	120	8×10.5	35	1800	42	HSC1VM121FARE00RAXXX
	220	10×10.5	30	2000	77	HSC1VM221GARE00RAXXX
50	22	6.3×9	90	1100	11	HSC1HM220E09E00RAXXX
	47	8×10.5	35	1500	23.5	HSC1HM470FARE00RAXXX
	100	10×10.5	35	1800	50	HSC1HM101GARE00RAXXX
63	15	6.3×9	100	1000	9.5	HSC1JM150E09E00RAXXX
	33	8×10.5	50	1200	20.8	HSC1JM330FARE00RAXXX
	56	10×10.5	40	1400	35.3	HSC1JM560GARE00RAXXX
80	47	8×12.5	40	1200	37.6	HSC1BM470FCRE00RAXXX

※ Specifications subject to change without notice.