SSG Series

Features

- 105℃, 1,000 hours assured
- Standard micro miniature size with 5mm height
- RoHS compliance

Specifications

Items	Performance
Category Temperature Range	-40℃ ~ +105℃
Capacitance Tolerance	±20% (at 120 Hz, 20℃)
Leakage Current (at 20℃)	I = 0.01CV or 3 (μA) whichever is greater (after 2 minutes) Where, C = rated capacitance in μF, V = rated DC working voltage in V
Tanδ (at 120 Hz, 20℃)	
Low Temperature Characteristics (at 120 Hz)	Impedance ratio shall not exceed the values given in the table below.
Endurance	
Shelf Life Test	Test time: 500 hours; other items are the same as those for the Endurance.
Ripple Current and Frequency Multipliers	

Rated Voltage	4	6.3	10	16	25	35	50
Tanδ (max)	0.35	0.25	0.20	0.17	0.15	0.13	0.10

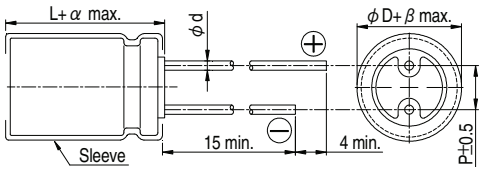
Rated Voltage		4	6.3	10	16	25	35	50
Impedance Ratio	Z(-25℃)/Z(+20℃)	7	6	4	3	2	2	2
	Z(-40℃)/Z(+20℃)	15	12	8	6	4	4	4

Test Time	1,000 Hrs
Capacitance Change	Within ±30% of initial value for 4 ~ 6.3V; Within ±25% of initial value for 10 ~ 50V
Tanδ	Less than 200% of specified value
Leakage Current	Within specified value

* The above specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage applied with rated ripple current for 1,000 hours at 105℃.

Cap.(μF) \ Freq.(Hz)	60 (50)	120	500	1k	10k up
≦ 47	0.75	1.00	1.15	1.34	1.50
100 ~ 220	0.80	1.00	1.08	1.20	1.30

Diagram of Dimensions



Lead Spacing and Diameter Unit: mm

ϕD	4	5	6.3
P	1.5	2.0	2.5
ϕd	0.45		
α	1.0		
β	0.5		

Dimension and Permissible Ripple Current

Dimension: ϕD × L(mm)
Ripple Current: mA/rms at 120 Hz, 105℃

Rated Volt. (Vdc) / Cap. (μF)	Contents	4V (0G)		6.3V (0J)		10V (1A)		16V (1C)		25V (1E)		35V (1V)		50V (1H)	
		ϕD×L	mA	ϕD×L	mA	ϕD×L	mA	ϕD×L	mA	ϕD×L	mA	ϕD×L	mA	ϕD×L	mA
1	010													4×5	7
2.2	2R2											4×5	8.7	4×5	10
3.3	3R3									4×5	11	4×5	12	4×5	13
4.7	4R7							4×5	14	4×5	15	4×5	17	5×5	20
10	100					4×5	14	4×5	23	5×5	27	5×5	27	6.3×5	31
22	220			4×5	21	5×5	27	5×5	30	6.3×5	42	6.3×5	46	6.3×5	46
33	330	4×5	27	5×5	30	5×5	34	6.3×5	40	6.3×5	52	6.3×5	52		
47	470	4×5	34	5×5	36	6.3×5	43	6.3×5	48	6.3×5	58				
100	101	5×5	50	6.3×5	56	6.3×5	70								
220	221	6.3×5	74												

Part Numbering System

SSG Series	100μF	±20%	6.3V	Bulk Package	Gas Type	6.3ϕ×5L	
SSG	**101**	**M**	**0J**	**BK**	**-**	**0605**	**XX**
Series Name	Capacitance	Capacitance Tolerance	Rated Voltage	Lead Configuration and Package	Rubber Type	Case Size	

S = Standard
KS = AEC-Q200 Qualified, Safety Critical Application
LS = AEC-Q200 Qualified, Non-Safety Critical Application

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