SG Gap SLC

1 Features

- Small size, high accuracy, rugged construction, stable performance;
- Gold electrode is compatible with gold wire, gold strip etc;
- Two capacitors are in series connection, low insert loss and ultra-high self-resonance frequency.

2 Applications

Widely applicable to optical and wireless communication equipment. The functional applications are D.C. blocking, bypassing, filtering, coupling, tuning, matching etc in high frequency and micro-wave circuits.

3 How to order

SG	2	25	2X1	2A	101M	C	C	01
Type	Termination Configuration	Case size code	TCC	Rated Voltage	Capacitance& Tolerance	Termination	Packing	Design
Table1	Table2	Table 3	Table4	Table5	Table 6、7	Table8	Table9	Table 10

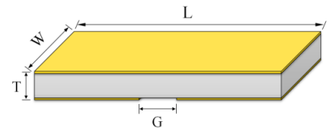
Table 1 Type	Table 2 Termination configuration	Drawing
SG: Gap SLC	2: 2 terminations	

Table 3 Case size code (mm)

Case size code	W	Lmax	G (Typical)	T
10	0.254 ± 0.076	0.762	0.127	0.07 ~ 0.40
15	0.381 ± 0.076	1.016	0.203	
20	0.508 ± 0.076	1.270	0.254	
25	0.635 ± 0.076	2.032	0.508	
30	0.762 ± 0.076	2.032	0.508	
35	0.889 ± 0.127	2.032	0.508	
40	1.016 ± 0.127	2.032	0.508	
50	1.270 ± 0.127	2.032	0.508	

Note: the value in column G is for reference only.

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Table 4 TCC	Operating Temperature	Table 5 Rated Voltage	
AG、CG、UK VL、KL、DM	−55℃ ~ 125℃	1C	16V
		1E	25V
2X1	−55℃ ~ 125℃	1H	50V
2F2	−55℃ ~ 85℃	1J	63V
2F4	−25℃ ~ 85℃	2A	100V
X7R、X7S	−55℃ ~ 125℃		

Table 6 NominalCapacitance

EIA Capacitance code in pF.1st two digit are significant figures of capacitance; 3rd digit denotes number of Zeros; R=decimal point; For examples: 103=10,000pF; 3R9=3.9pF.

Table 7 Capacitance Tolerance

Nominal Capacitance < 10pF		Nominal Capacitance≥ 10pF			
Code	Tolerance (pF)	Code	Tolerance (%)	Code	Tolerance (%)
A	± 0.05	F	± 1	L	± 15
B	± 0.1	G	± 2	M	± 20
C	± 0.25	J	± 5	S	−20 ~ +50
D	± 0.50	K	± 10	Z	−20 ~ +80

Table 8 Termination	Table 9 Packing	Table 10 Design code
P: TiW/Au	C:Waffle E:Blue film, 7.87" blue film, no ring F:Blue film, 6 " ring	Design code: Blank if no special design; For special design,two digit number will be used,start from 01
T: TiW/Ni/Au		
C: NiCr/Au		
S: Special termination		

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4 SG Capacitance Value for Class 1 / Class 2 Ceramic

Case size code	Rated Voltage	Capacitance Range (pF)								
		TCC	AG	CG	UK	VL	KL	DM	2X1	2F2
10	25V	min.	0.02	0.04	0.25	0.39	0.85	1.1	2.2	18
		max.	0.07	0.38	0.52	1.1	1.8	2.2	19	46
	50V	min.	0.02	0.03	0.23	0.36	0.79	0.99	2.0	17
		max.	0.05	0.30	0.50	1.1	1.7	2.1	15	37
15	25V	min.	0.04	0.07	0.51	0.79	1.7	2.2	4.4	37
		max.	0.11	0.66	0.88	1.9	3.0	3.7	33	80
	50V	min.	0.03	0.05	0.35	0.54	1.2	1.5	3.0	26
		max.	0.09	0.51	0.85	1.9	2.9	3.6	25	62
20	25V	min.	0.07	0.13	0.91	1.4	3.1	3.8	7.8	66
		max.	0.18	1.0	1.4	3.0	4.6	5.8	52	130
	50V	min.	0.04	0.08	0.55	0.84	1.9	2.3	4.7	40
		max.	0.14	0.79	1.3	2.9	4.5	5.6	40	97
25	50V	min.	0.07	0.13	0.91	1.4	3.1	3.9	7.9	67
		max.	0.25	1.4	2.4	5.2	8.0	10	71	170
30	50V	min.	0.08	0.14	0.98	1.5	3.3	4.1	8.5	71
		max.	0.29	1.7	2.8	6.2	9.5	12	84	210
35	50V	min.	0.09	0.15	1.1	1.7	3.7	4.6	9.3	79
		max.	0.36	2.1	3.4	7.5	12	14	100	250
40	50V	min.	0.10	0.18	1.3	1.9	4.2	5.3	11	91
		max.	0.40	2.3	3.9	8.5	13	16	120	280
50	50V	min.	0.13	0.23	1.6	2.5	5.4	6.8	14	120
		max.	0.49	2.8	4.7	10	16	20	140	350

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5 SG Capacitance Value for Class 3 Ceramic

Case size code	Rated Voltage	Capacitance Range (pF)	
		TCC	X7R、X7S
10	25V	min.	32
		max.	120
15	25V	min.	54
		max.	200
20	25V	min.	92
		max.	310
25	25V	min.	170
		max.	550
30	25V	min.	210
		max.	650
35	25V	min.	230
		max.	790
40	25V	min.	270
		max.	890
50	25V	min.	340
		max.	1100