



FEATURES

| Surface Mounting Design 5.4*5.4*4.0mm

High Current Handling Capability 5000A @ 8/20 μs

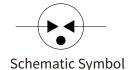
Low Capacitance and Insertion Loss

| Quick Response and Long Service Life

| Moisture sensitivity level:Level 1



5.4*5.4*4.0mm



APPLICATION INFORMATION

| Communication equipment.

Repeaters, Modems

| Telephone Interface,Line cards.

Data communication equipment.

AGENCY APPROVALS

lcon	Solderability	
RoHS	Compliance with 2011/65/EU	
HF	Compliance with IEC61249-2-21:2003	
₽b	Mean lead free	
IR.	UL Certificated E505857	

PRODUCT CHARACTERISTICS

Lead Material	Body Material	Terminal Finish
Copper or Fe-Ni alloy	Ceramics	100% Matte-Tin Plated



ELECTRICAL PARAMETER

Parameter	Condition	Rating	
DC Spark-over Voltage 1)	100V/s	120-180	
Impulse Spark-over Voltage	At 1kV/μs	for 99 % of measured values ≤650	V
impuise Spark-over voltage	At 1kV/μs	Typical values of distribution ≤600	
Discharge Current (8/20us) 2)	10 times	5	KA
AC Discharge Current	50Hz, 1S	5	
Minimum Insulation Resistance	Test Voltage DC=50V	1	GΩ
Max. Capacitance 1MHz	VDC=0.5V	1	
Operating and Storage Temperature		-40~125	°C

¹⁾ In ionized mode

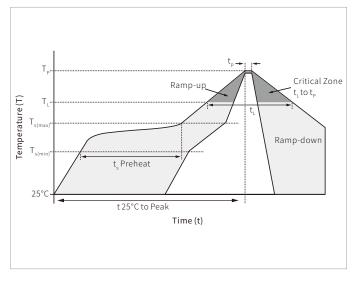
ENVIRONMENTAL RELIABILITY CHARACTERISTICS

Testing items	Technical standards	
High Temperature Storage Test	Temperature: 85°C; Time:2H	
Low Temperature Storage Test	Temperature: -40°C; Time:2H	
Vibration	Frequency: 10-500Hz ; Amplitude: 0.15mm ; Time: 45min	
Resistance of soldering heat	Temperature: 260±5°C; Time of dip soldering: 10s, 1time	

NOTE:Up-screen program can be specified by customer's request via contacting Semiware service

SOLDERING PARAMETERS

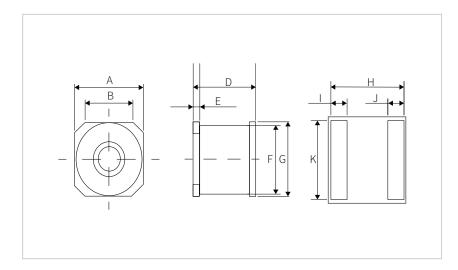
Reflow Condition		Lead-free assembly	
	Temperature Max $(T_{s(min)})$	150°C	
Pre Heat	Temperature Max $(T_{s(max)})$	200°C	
	Time (min to max) (t_s)	60 – 180 secs	
Average rar	mp up rate (Liquidus Temp (T_{L}) to peak	3°C/second max	
T _{s(max)} to T₁ - Ramp-up Rate		3°C/second max	
Reflow	Temperature (T」) (Liquidus)	217°C	
Kellow	Time (min to max) (t,)	60 – 150 seconds	
Peak Temperature (T,)		260°C	
Time within 5°C of actual peak Temperature (t _p)		20 – 40 seconds	
Ramp-down Rate		6°C/second max	
Time 25°C to peak Temperature (T,)		8 minutes max.	
Do not exceed		260°C	



²⁾ Terms and waveforms in accordance with ITU-T Rec. K. 12; IEC 61643-21

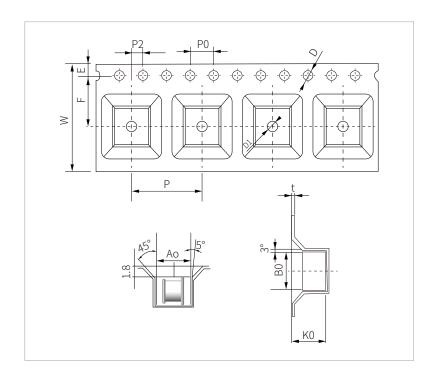


DIMENSIONS AND RECOMMENDED SOLDERING PAD



Ref.	mm	
А	5.4±0.15	
В	3.8	
С	Ф6.6±0.2	
D	4.0±0.2	
Е	0.5 ± 0.1	
F	Ф4.7±0.2	
G	Ф5.4±0.15	
Н	4.7	
I	1.3	
J	1.3	
K	3.9	

PACKAGE REEL INFORMATION



Ref.	mm	
W	16.0±0.3	
Р	12.0±0.1	
E	1.75±0.1	
F	7.5±0.1	
P2	2.0±0.1	
D	1.5±0.1	
D1	1.5±0.1	
P0	4.0±0.1	
10P0	40.0±0.2	
A0	5.7±0.1	
В0	5.7±0.1	
K0	5.7±0.1	
t	0.4±0.05	

ORDERING INFORMATION

Part Number	Size	Marking	QTY/Reel	Reel Size
SG2R05B150B	5.4*5.4*4.0mm	 SG150 <u>05</u>	800	13"



Headquarters

No.3387 Shendu Road Pujiang I&E Park Minhang Shanghai China 201000

Hotline

400-021-5756

Web

Https://www.semiware.com

Sales Center

Tel: 86-21-3463-7458 Email: sales18@semiware.com

Customer Service

Tel: 86-21-5484-1001

Email: sales17@semiware.com

Technical Support

Tel: 86-21-3463-7654

Email: fae01@semiware.com

Complaint & Suggestions

Tel: 86-21-3463-7172

Ext: 8868

Email: cs03@semiware.com

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Website

Wechat

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