

FEATURES

| Surface Mounting Design 5.4*5.4*5.0mm

High Current Handling Capability 5000A @ 8/20 μs

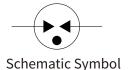
Low Capacitance and Insertion Loss

| Quick Response and Long Service Life

| Moisture sensitivity level:Level 1



5.4*5.4*5.0mm



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	Unit
DC Spark-over Voltage 1)	100V/s	63-117	
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	А
Minimum Insulation Resistance	Test Voltage DC=50V	1	GΩ
Max. Capacitance 1MHz	V _{DC} =0.5V	1	pF
Operating and Storage Temperature		-40~125	°C

¹⁾ In ionized mode

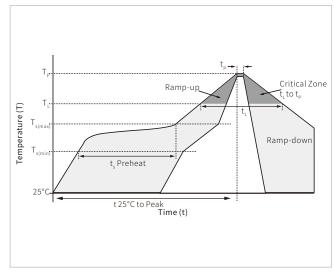
ENVIRONMENTAL RELIABILITY CHARACTERISTICS

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, 1tim	

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

SOLDERING PARAMETERS

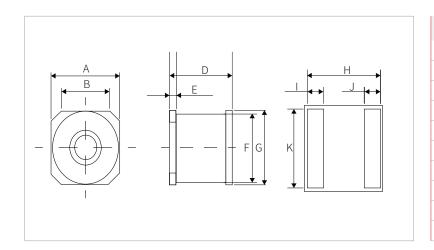
Reflow Condition		Lead-free assembly	
	Temperature Max $(T_{s(min)})$	150°C	
Pre Heat	Temperature Max (T _{s(max)})	200°C	
	Time (min to max) (t_s)	60 – 180 secs	
Average ramp up rate (Liquidus Temp (T_L) to peak		3°C/second max	
T _{s(max)} to T _L - Ramp-up Rate		3°C/second max	
Reflow	Temperature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



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

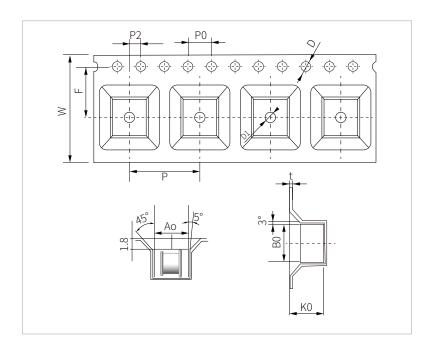


DIMENSIONS AND RECOMMENDED SOLDERING PAD



Ref.	mm	
А	5.4±0.1	
В	3.8±0.1	
D	5.0±0.2	
Е	0.5±0.1	
F	Ф5.0±0.1	
G	Ф5.4±0.1	
Н	5.7	
I	1.2	
J	1.2	
K	5.8	

PACKAGE REEL INFORMATION



Ref.	mm
W	16.0±0.3
Р	12.0±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
SG2R05B090A	5.4*5.4*5.0mm	 SG090 <u>05</u>	800	13"



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