

## **FEATURES**

Surface Mounting Design 4.2*4.2*4.0mm
High Current Handling Capability 3000Α @ 8/20 μs
Low Capacitance and Insertion Loss
Quick Response and Long Service Life
Moisture sensitivity level: Level 1



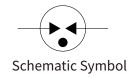
4.2\*4.2\*4.0mm

# **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		
Ø	Mean lead free		

## **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 Blocking Voltage 1)	100V/s	72-108	V
Introduce Crearly every/elteres	At 1kV/µs	for 99 % of measured values $\leq$ 800	V
Impulse Spark-over Voltage	At 1kV/µs	Typical values of distribution $\leq$ 700	V
Impulse Discharge Current 2)	8/20µs	3000	А
Insulation Resistance	DC=25V	≥1	GΩ
Capacitance at 1MHz	V <sub>DC</sub> =0.5V	≤ 1.0	pF
Operating And Storage Temperature		-40-125	°C

1) In ionized mode

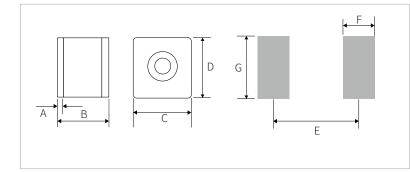
2) Terms and waveforms in accordance with ITU-T Rec. K. 12; IEC 61643-311

### **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

### DIMENSIONS AND RECOMMENDED SOLDERING PAD



Ref.	mm	
А	0.4±0.1mm	
В	4.0±0.4mm	
С	4.2±0.5mm	
D	4.2±0.5mm	
E	3.5mm	
F	1.3mm	
G	5.0mm	



## **SOLDERABILITY TEST**

Solderability		
Solder Pot Temperature	Solder Dwell Time	
245°C ± 5°C	4-6 seconds	

### **REFLOW PROFILE**

	Reflow Condition	Lead-free assembly
	Temperature Min	150°C
Pre Heat	Temperature Max	200°C
	Time(min to max)	60 – 180 secs
Average ramp up rate (Liquidus)Temp (T <sub>L</sub> ) to peak		3°C/second max
	$T_{s(max)}$ to $T_{L}$ - Ramp-up Rate	5 6/300011110
D (I	Temperature (T <sub>L</sub> ) (Liquidus)	217°C
Reflow	Time(min to max)(t <sub>s</sub> )	60 – 150 seconds
Peak Tem	nperature (T <sub>P</sub> )	260 °C
Time with	in 5°C of actual peak Temperature (tp)	20-40 seconds
Ramp-do	wn Rate	6°C/second max
Time 25°(	C to peak Temperature (T <sub>P</sub> )	8 minutes max.
Do not ex	ceed	260°C

## **ORDERING INFORMATION**

Part Number	Size	QTY/Reel	Reel Size
SG4240B090	4.2*4.2*4.0mm	1000PCS	13"



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#### By QR Code





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