

FEATURES

Surface Mounting Design 8.3*8.3*6.0mm

- High Current Handling Capability 10000A @ 8/20 μs
- Low Capacitance and Insertion Loss
- Quick Response and Long Service Life
- Moisture sensitivity level: Level 1



8.3*8.3*6.0mm



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	
P6	Mean lead free	
LR.	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 Blocking Voltage 1)	100V/s	3600-5400	
Impulse Spark-over Voltage	At 1kV/μs	for 99 % of measured values \leq 6500	V
	At 1kV/µs	Typical values of distribution ≤ 6200	V
Impulse Discharge Current 2)	8/20µs	10000	А
AC Discharge Current	50Hz, 1S, 10times	20	А
Insulation Resistance	DC=250V	≥ 1	GΩ
Capacitance at 1MHz	V _{DC} =0.3V	≤ 1.5	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 61643-21

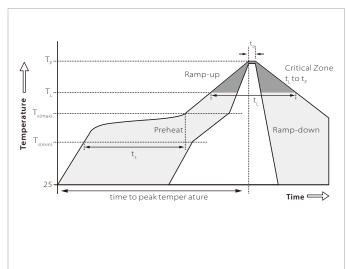
ENVIRONMENTAL RELIABILITY CHARACTERISTICS

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

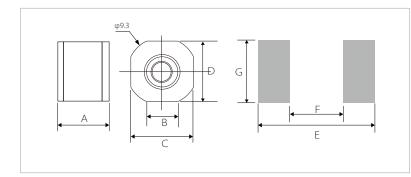
REFLOW PROFILE

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_L) to peak T_s (max)to T_L - Ramp-up Rate		3°C/second max
	Temperature (T _L) (Liquidus)	217°C
Reflow	Temperature (T _L)	60-150 seconds
PeakTem	Peak Temperature (T _p) 260+0/-	
Time within 5°C of actual peak Temperature (tp)		~10 seconds
Ramp-down Rate		6°C/second max
Time 25℃ to peak Temperature (T,)		8 minutes max.
Do not exceed		260°C



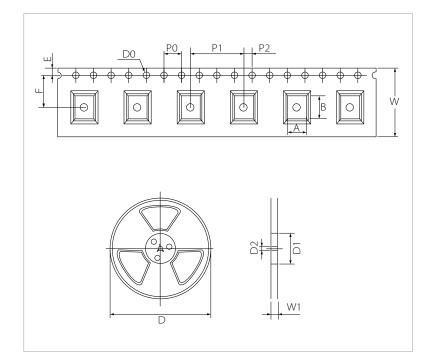


PRODUCT DIMENSIONS AND RECOMMENDED SOLDERING PAD



Ref.	ef. mm	
A	6.0±0.2	
В	4.2±0.1	
С	8.3±0.2	
D	8.3±0.2	
E	7.0	
F	4.0	
G	8.0	

PACKAGE REEL INFORMATION



Ref.	mm	inch
A	6.5±0.1	0.256±0.004
В	8.4±0.1	0.331±0.004
D0	Ф 1.5±0.1	Ф 0.059±0.004
PO	4.0±0.1	0.157±0.004
P1	12.0±0.1	0.472±0.004
P2	2.0±0.1	0.079±0.004
E	1.75±0.1	0.069±0.004
F	7.5±0.1	0.295±0.004
W	16.5±0.4	0.650±0.016
D	Ф 330.0	Ф 13.0
D1	Φ 50Min	Ф 1.97Min
D2	Φ13±0.15	0.512±0.006
W1	16.8±2.0	0.661±0.079

ORDERING INFORMATION

Part Number	Size	QTY/Reel	Reel Size
SG2R09B4500	8.3*8.3*6.0mm	600pcs	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

By QR Code





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SG2R09B4500

Surface Mounted Gas Discharge Tube