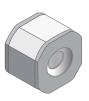


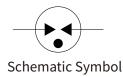
FEATURES

1	Surface	Mounting	Design	8.3*8.3*6.0mm
	ounace	mounting	Design	0.0 0.0 0.011111

- High Current Handling Capability 20000A @ 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		
P	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 Blocking Voltage 1)	100V/s	120-180	V
Impulse Spark-over Voltage	At 1kV/µs	for 99 % of measured values \leq 500	V
impulse spark-over voltage	At 1kV/μs	Typical values of distribution \leq 450	V
Impulse Discharge Current 2)	8/20µs	20000	А
AC Discharge Current	50Hz, 1S, 10times	20	А
Insulation Resistance	DC=50V	≥ 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

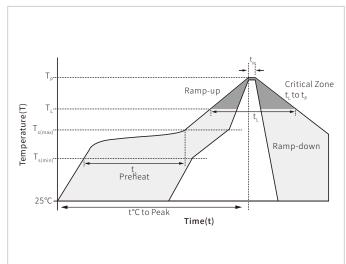
ENVIRONMENTAL RELIABILITY CHARACTERISTICS

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 \pm 5°C; Time of dip soldering: 10s, 1time

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

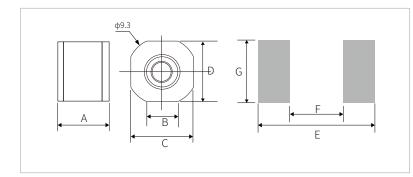
REFLOW PROFILE

	Reflow Condition	Lead-free assembly
	Temperature Min	150°C
Pre Heat	Temperature Max	200°C
	Time(min to max)	60 – 180 secs
Average ra	mp up rate (Liquidus)Temp (T_L) to peak	3°C/second max
	T₅(max)to T₋- Ramp-up Rate	,
Reflow	Temperature (T_{L}) (Liquidus)	217°C
Renow	Time(min to max)(t _s)	60 – 150 seconds
Peak Tem	nperature (T _P)	260 °C
Time with	nin 5°C of actual peak Temperature (tp)	10-30 seconds
Ramp-down Rate		6°C/second max
Time 25°	C to peak Temperature (T _P)	8 minutes max.
Do not exceed		260°C



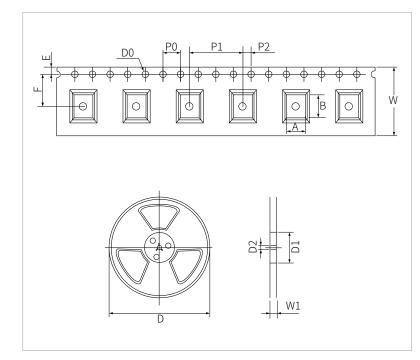


DIMENSIONS AND RECOMMENDED SOLDERING PAD



Ref.	mm
А	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
А	6.5±0.1	0.256±0.004
В	8.4±0.1	0.331±0.004
DO	Φ1.5±0.1	Ф0.059±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	Φ13.0
D1	Φ 50Min	Φ 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
SG2R09B150	8.3*8.3*6.0mm	600pcs	13"



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By QR Code





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