

## FEATURES

- | Size Design  $\phi 8.0 \times 2.2\text{mm}$

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- | High Current Handling Capability 20000A @ 8/20  $\mu\text{s}$

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- | Stable performance over life

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- | Very low capacitance

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- | High insulation resistance

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 $\phi 8.0 \times 2.2\text{mm}$ 

## APPLICATIONS

- | Splitter

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- | PCI Cards

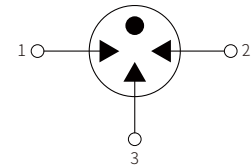
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- | Modem

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- | Line cards

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Schematic Symbol

## AGENCY APPROVALS

Icon	Solderability
RoHS	Compliance with 2011/65/EU
HF	Compliance with IEC61249-2-21:2003
	Mean lead free
	UL Certificated E505857

## PRODUCT CHARACTERISTICS

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

## ELECTRICAL PARAMETER

Parameter	Symbol	Rating	Unit
DC Spark-over Voltage 1)	100V/s	63-117	
Impulse Spark-over Voltage	At 1kV/μs	for 99 % of measured values ≤600	V
	At 1kV/μs	Typical values of distribution ≤550	
Discharge Current (8/20us) 2)	10 times	20	KA
Minimum Insulation Resistance	Test Voltage DC=100V	>1	GΩ
Max. Capacitance 1MHz	V <sub>DC</sub> =0.5V	<3	pF
Operating and Storage Temperature		-40~125	°C

1) In ionized mode

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

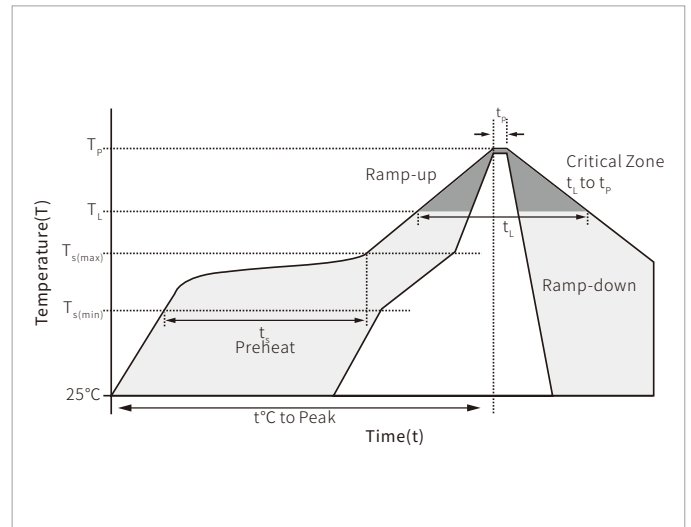
## ENVIRONMENTAL RELIABILITY CHARACTERISTICS

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°C; Time of dip soldering:10s,1time

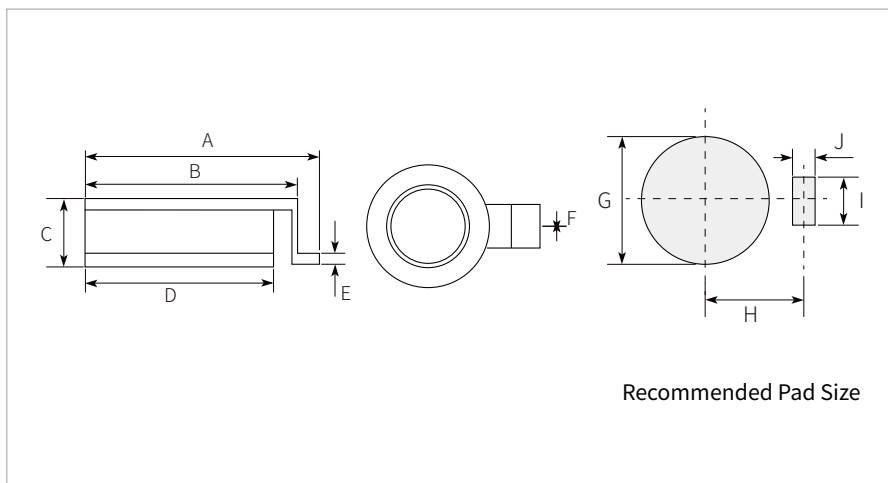
**NOTE:**Up-screen program can be specified by customer' s request via contacting Semiware service

## REFLOW PROFILE

Reflow Condition		Lead-free assembly
Pre Heat	Temperature Min	150°C
	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
Reflow	Temperature ( $T_L$ ) (Liquidus)	217°C
	Time(min to max)( $t_s$ )	60~150 seconds
Peak Temperature ( $T_p$ )		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 ( $T_p$ )		8 minutes max.
Do not exceed		260°C

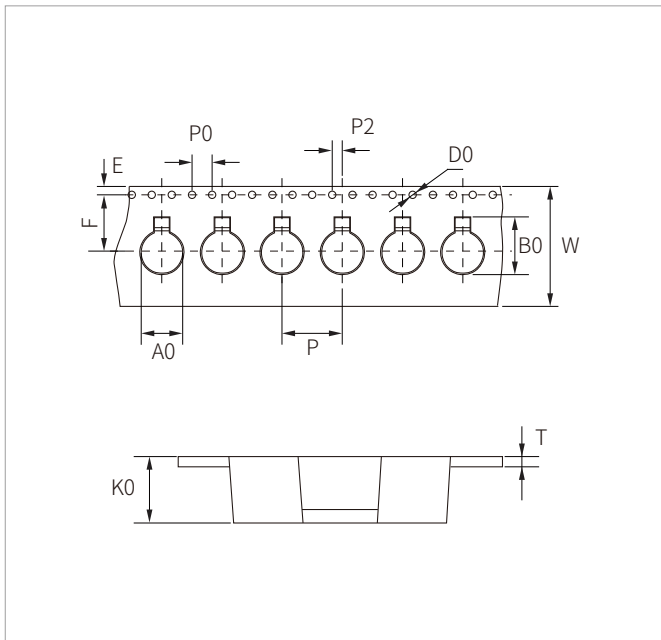


## PRODUCT DIMENSIONS



Ref.	Outline Dimensions
	Millimeters
A	10.5±0.3
B	9.5±0.3
C	2.20±0.3
D	φ8.0±0.2
E	0.40±0.15
F	2.2±0.2
G	8.5
H	6.5
I	3.2
J	1.5

## TAPE AND REEL SPECIFICATION



Ref.	Dimensions	
	Millimeters	Inches
W	24+0.3/-0.1	0.945+0.012/-0.004
A0	8.3±0.1	0.327±0.004
B0	11±0.1	0.433±0.004
K0	2.6±0.1	0.102±0.004
E	1.75±0.1	0.069±0.004
F	11.5±0.1	0.453±0.004
P	12±0.1	0.472±0.004
P0	4±0.1	0.157±0.004
P2	2±0.1	0.079±0.004
D0	1.5+0.1/-0	0.059+0.004/-0
T	0.4±0.05	0.016±0.002

## ORDERING INFORMATION

Part Number	Size	QTY/Reel	Reel Size
SG2R08B090C	φ8.0*2.2mm	1000PCS	13"

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**By QR Code**

Website



Wechat

To find your local partner within Semiware' s global website: [www.semiware.com](http://www.semiware.com)

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