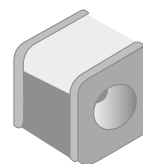
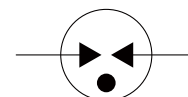


FEATURES

- | Surface Mounting Design 5.0*5.0*4.2mm
- | High Current Handling Capability 5000A @ 8/20 μ s
- | Low Capacitance and Insertion Loss
- | Quick Response and Long Service Life
- | Moisture sensitivity level: Level 1



5.0*5.0*4.2mm





Schematic Symbol

APPLICATION INFORMATION

- | Communication equipment.
- | Repeaters, Modems
- | Telephone Interface, Line cards.
- | Data communication equipment.

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	Condition	Rating	Unit
DC Blocking Voltage 1)	100V/s	376-564	V
Impulse Spark-over Voltage	At 1kV/μs	for 99 % of measured values ≤ 1100	V
	At 1kV/μs	Typical values of distribution ≤ 1000	V
Impulse Discharge Current 2)	8/20μs	5000	A
AC Discharge Current	50Hz, 1S, 10times	5	A
Insulation Resistance	DC=100V	≥ 1	GΩ
Capacitance at 1MHz	V _{DC} =0.5V	≤ 0.8	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

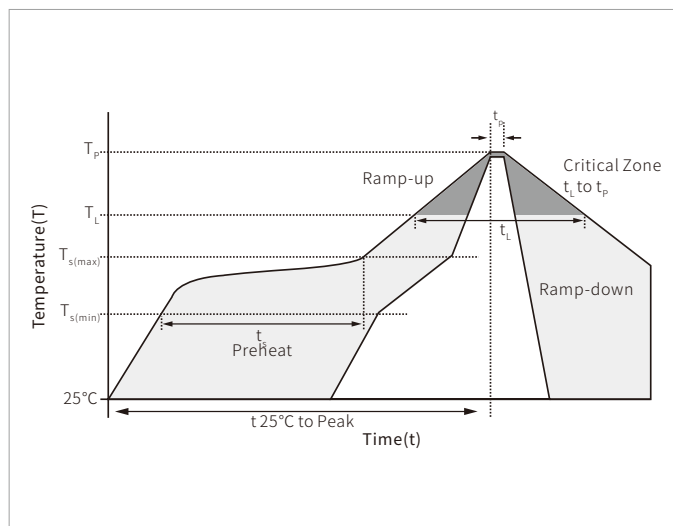
ENVIRONMENTAL RELIABILITY CHARACTERISTICS

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

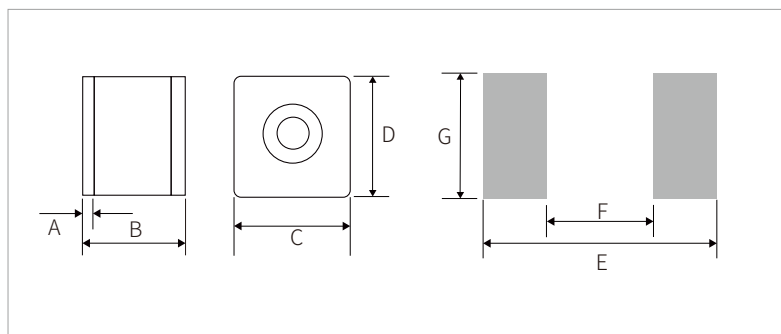
NOTE:Up-screen program can be specified by customer's request via contacting Semiware service

REFLOW PROFILE

Reflow Condition		Lead-free assembly
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

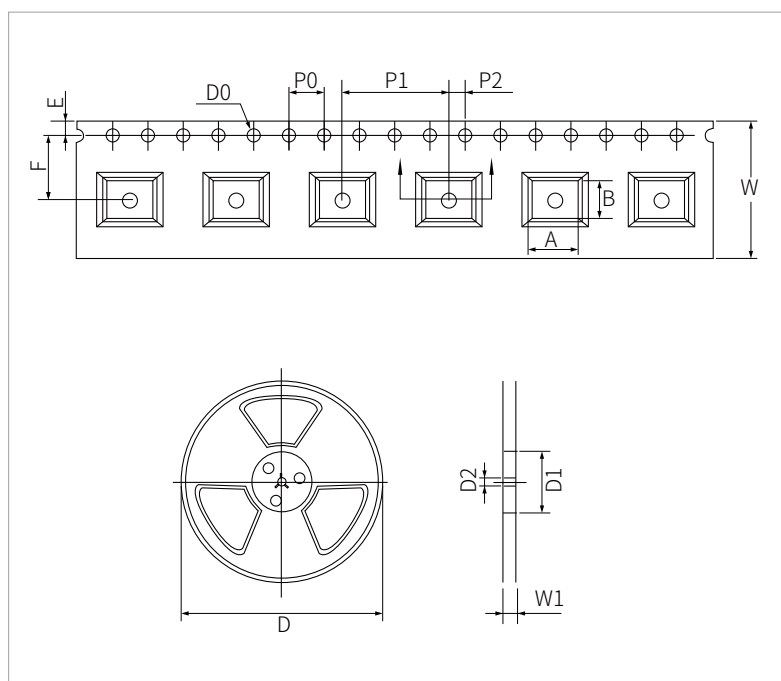


DIMENSIONS AND RECOMMENDED SOLDERING PAD



Ref.	mm
A	0.5 ± 0.1
B	4.2 ± 0.3
C	5.0 ± 0.2
D	5.0 ± 0.2
E	4.7
F	2.5
G	5.5

PACKAGE REEL INFORMATION



Ref.	mm	inch
A	5.5 ± 0.1	0.217 ± 0.004
B	4.7 ± 0.2	0.185 ± 0.008
D0	$\Phi 1.5 \pm 0.1$	$\Phi 0.059 \pm 0.004$
P0	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	16.0 ± 0.3	0.630 ± 0.012
D	$\Phi 330.0$	$\Phi 13.0$
D1	$\Phi 50\text{Min}$	$\Phi 1.97\text{Min}$
D2	$\Phi 13 \pm 0.15$	0.512 ± 0.006
W1	16.8 ± 2.0	0.661 ± 0.079

ORDERING INFORMATION

Part Number	Size	QTY/Reel	Reel Size
SG5042B470	5.0*5.0*4.2mm	1000	13"

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By QR Code

Website



Wechat

To find your local partner within Semiware' s global website: www.semiware.com

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