

FEATURES

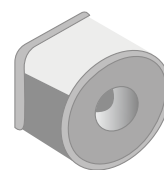
- | Surface Mounting Design 8.3*8.3*6.0mm

- | High Current Handling Capability 20000A @ 8/20 μs

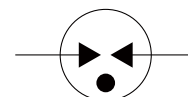
- | Low Capacitance and Insertion Loss

- | Quick Response and Long Service Life

- | Moisture sensitivity level: Level 1



8.3*8.3*6.0mm



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 Spark-over Voltage 1)	100V/s	376-564	V
Impulse Spark-over Voltage	At 1kV/ μ s	for 99 % of measured values \leq 1000	
	At 1kV/ μ s	Typical values of distribution \leq 950	
Discharge Current (8/20us) 2)	10 times	20	KA
AC Discharge Current	50Hz, 1S	20	A
Minimum Insulation Resistance	Test Voltage DC=250V	1	G Ω
Max. Capacitance 1MHz	$V_{DC}=0.5V$	1.5	pF
Operating and Storage Temperature		-40~125	$^{\circ}C$

1) In ionized mode

2) Terms and waveforms in accordance with ITU-T Rec. K. 12; IEC 61643-21

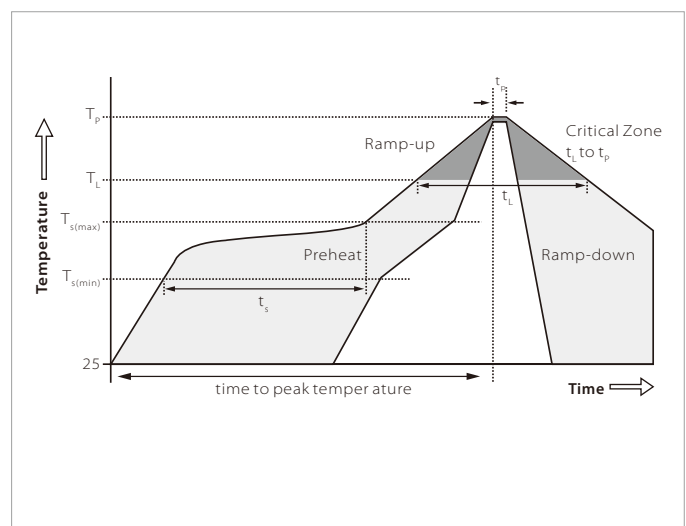
ENVIRONMENTAL RELIABILITY CHARACTERISTICS

Testing items	Technical standards
High Temperature Storage Test	Temperature: 85 $^{\circ}C$; Time: 2H
Low Temperature Storage Test	Temperature: -40 $^{\circ}C$; Time: 2H
Vibration	Frequency: 10-500Hz ; Amplitude : 0.15mm ; Time: 45min
Resistance of soldering heat	Temperature: 260 \pm 5 $^{\circ}C$; Time of dip soldering: 10s, 1time

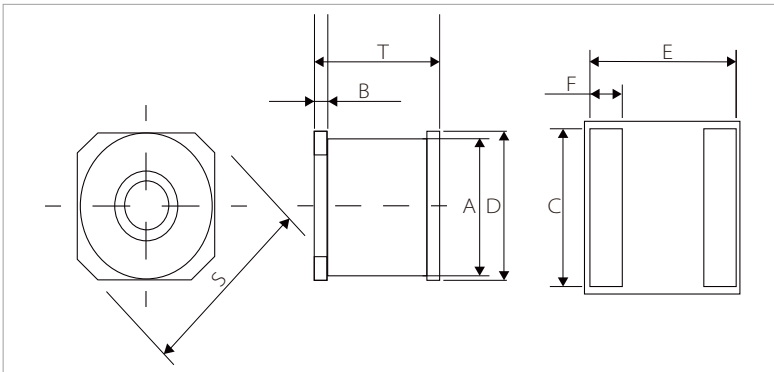
NOTE: Up-screen program can be specified by customer's request via contacting Semiware service

REFLOW PROFILE

Reflow Condition		Lead-free assembly
Pre Heat	Temperature Min	150 $^{\circ}C$
	Temperature Max	200 $^{\circ}C$
	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 $^{\circ}C$ /second max
Reflow	Temperature (T_L) (Liquidus)	217 $^{\circ}C$
	Temperature (T_L)	60-150 seconds
Peak Temperature (T_p)		260+0/-5 $^{\circ}C$
Time within 5 $^{\circ}C$ of actual peak Temperature (t_p)		~10 seconds
Ramp-down Rate		6 $^{\circ}C$ /second max
Time 25 $^{\circ}C$ to peak Temperature (T_p)		8 minutes max.
Do not exceed		260 $^{\circ}C$

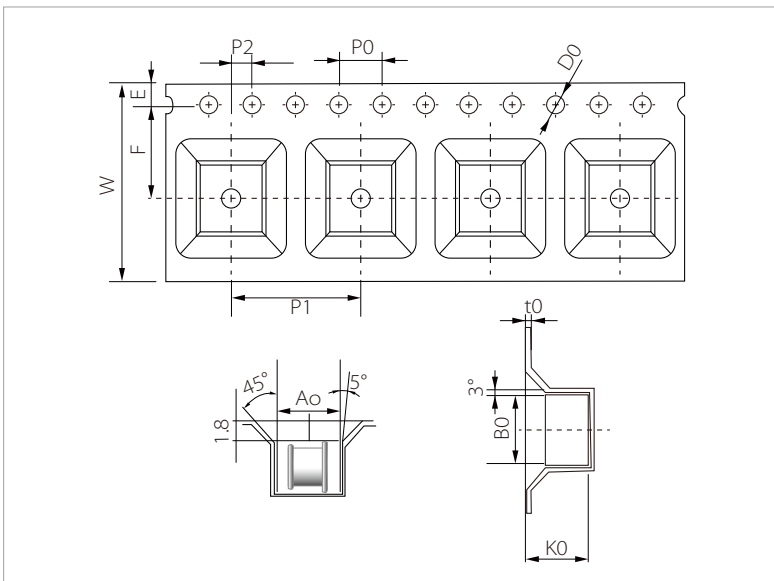


DIMENSIONS AND RECOMMENDED SOLDERING PAD



Ref.	mm
A	8.0±0.2
B	0.5±0.1
C	9.0
D	8.3±0.2
E	6.7
F	1.2
T	6.0±0.25
S	9.0±0.4

PACKAGE REEL INFORMATION



Ref.	mm
W	16.0±0.3
P0	4.0±0.1
P1	12.0±0.1
P2	2.0±0.1
D0	1.55±0.05
E	1.75±0.1
F	7.5±0.1
A0	6.35±0.1
K0	6.55±0.1
B0	8.65±0.1
t0	0.5±0.1

ORDERING INFORMATION

Part Number	Size	Marking	QTY/Reel	Reel Size
SG2R08B470A	8.3*8.3*6.0mm	 SG470 08	600	13"

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By QR Code

Website



Wechat

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