

## **FEATURES**

Surface Mounting Design 8.3\*8.3\*6.0mm

High Current Handling Capability 20000A @ 8/20 μs

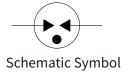
Low Capacitance and Insertion Loss

| Quick Response and Long Service Life

| Moisture sensitivity level:Level 1



8.3\*8.3\*6.0mm



## **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	
Pb	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 Spark-over Voltage 1)	100V/s	376-564	
Impulse Spark-over Voltage	At 1kV/μs	for 99 % of measured values ≤1000	V
impuise Spark-over voltage	At 1kV/μs	Typical values of distribution ≤950	
Discharge Current (8/20us) 2)	10 times	20	KA
AC Discharge Current	50Hz, 1S	20	А
Minimum Insulation Resistance	Test Voltage DC=250V	1	GΩ
Max. Capacitance 1MHz	V <sub>DC</sub> =0.5V	1.5	pF
Operating and Storage Temperature		-40~125	°C

<sup>1)</sup> In ionized mode

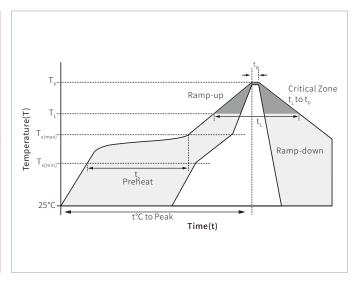
## **ENVIRONMENTAL RELIABILITY CHARACTERISTICS**

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**

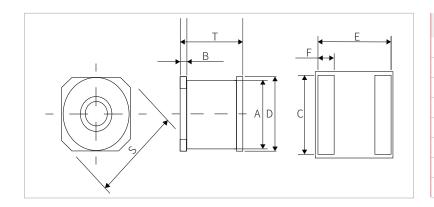
	Reflow Condition	Lead-free assembly	
	Temperature Min	150°C	
Pre Heat	Temperature Max	200°C	
	Time(min to max)	60 – 180 secs	
Average ramp up rate (Liquidus)Temp ( $T_L$ ) to peak $T_s$ (max)to $T_L$ - Ramp-up Rate		3°C/second max	
Reflow	Temperature (T <sub>L</sub> ) (Liquidus)	217°C	
Renow	$Time(min to max)(t_s)$	60 – 150 seconds	
Peak Temperature (T,)		260 °C	
Time within 5°C of actual peak Temperature (tp)		10-30 seconds	
Ramp-down Rate		6°C/second max	
Time 25°C to peak Temperature (T <sub>P</sub> )		8 minutes max.	
Do not exceed		260°C	



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

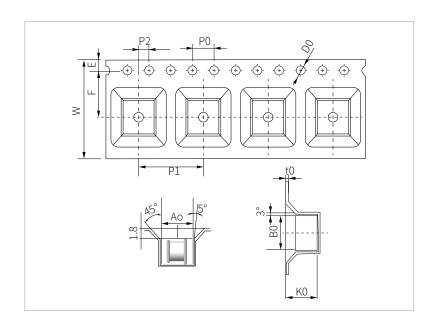


## **DIMENSIONS AND RECOMMENDED SOLDERING PAD**



Ref.	mm	
А	8.0±0.2	
В	0.5±0.1	
С	9.0	
D	8.3±0.2	
Е	6.7	
F	1.2	
Т	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	
В0	8.65±0.1	
t0	t0 0.5±0.1	

# **ORDERING INFORMATION**

Part Number	Size	Marking	QTY/Reel	Reel Size
SG2R08B470A	8.3*8.3*6.0mm	<b>7</b> SG470 <u>08</u>	600	13"



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### By QR Code





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