

# **FEATURES**

- Size Design  $\Phi 5.5^* 6.0 \text{mm}$
- | High Current Handling Capability 5,000A @ 8/20  $\mu s$
- Low Capacitance and Insertion Loss
- | Quick Response and Long Service Life
- Moisture sensitivity level:Level 1



SG2R05B420

Gas Discharge Tube

Φ5.5\*6.0mm



Schematic Symbol

# **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		
19.	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	Limit	Unit
DC Blocking Voltage 1)	100V/s	336-504	
Impulse Spark-over Voltage	At 1kV/µs	for 99 % of measured values $\leq$ 900	V
impulse spark-over voltage	At 1kV/µs	Typical values of distribution $\leq$ 850	V
Impulse Discharge Current 2)	8/20µs ±5times	5	KA
Insulation Resistance	DC=100V	≥1	GΩ
Capacitance at 1MHz	V <sub>DC</sub> =0.5V	$V_{\rm DC}$ =0.5V $\leq 1$	
Operating and Storage Temperature		-40~125	°C

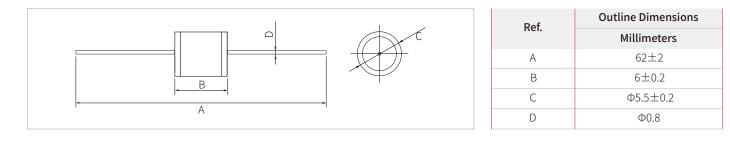
1) In ionized mode

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

### **ENVIRONMENTAL RELIABILITY CHARACTERISTICS**

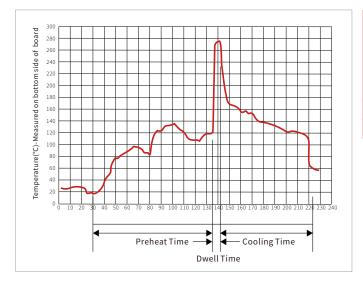
Testing items	Technical standards	
High Temperature Storage Test	re Storage Test Temperature: 125°C ; Time:2H	
Low Temperature Storage Test	Temperature: -40°C; Time:2H	
Vibration	Frequency: 10-500Hz ; Amplitude: 0.15mm ; Time: 45min	
Resistance of soldering heat Temperature: 260±5°C; Time of dip soldering:10s,1time		

# **PRODUCT DIMENSIONS**



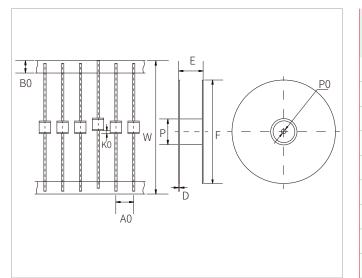


### **WAVE SOLDERING**



Wave Parameter		Lead–free assembly	
Pre Heat	Temperature Min	100°C	
	Temperature Max	150°C	
	Time(min to max)	60 – 180 secs	
Solder pot Temperature		280°C Max	
Solder Dwell Time		2-5 seconds	

### TAPE AND REEL SPECIFICATION



Ref.	Dimensions		
	Millimeters	Inches	
W	65±2	2.559±0.079	
AO	10±0.5 0.394±0.020		
B0	6±1	0.236±0.012	
K0	1.2 Max.	0.47 Max.	
D	2.5±0.5	0.098±0.020	
F	340±2	13.39±0.079	
E	73±2	2.874±0.079	
Р	82±2	3.228±0.079	
P0	Ф16±1 Ф0.63±0.039		

#### **ORDERING INFORMATION**

Dart Number	Sizo	Marking	Qty	/pcs
Part Number	Size		Reel	Carton
SG2R05B420	Ф5.5*6.0mm	🌠 SG420 <u>05</u>	1000	4000



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#### By QR Code





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Gas Discharge Tube