

FEATURES

- | Size Design $\Phi 8.0 \times 6.0 \text{mm}$

- | High Current Handling Capability 10,000A @ 8/20 μs

- | Low Capacitance and Insertion Loss

- | Quick Response and Long Service Life

- | Moisture sensitivity level: Level 1


 $\Phi 8.0 \times 6.0 \text{mm}$

APPLICATION INFORMATION

- | Communication equipment.

- | Repeaters, Modems

- | Telephone Interface, Line cards.

- | Data communication equipment.



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 | Limit | Unit |
|-----------------------------------|---------------------------|---|--------------|
| DC Blocking Voltage 1) | 100V/s | 184-276 | V |
| Impulse Spark-over Voltage | At 1kV/ μ s | for 99 % of measured values \leq 800 | V |
| | At 1kV/ μ s | Typical values of distribution \leq 750 | V |
| Impulse Discharge Current 2) | 8/20 μ s \pm 5times | 10 | KA |
| Insulation Resistance | DC=100V | \geq 1 | G Ω |
| Capacitance at 1MHz | V _{DC} =0.5V | \leq 1.5 | pF |
| Operating and Storage Temperature | | -40~125 | $^{\circ}$ C |

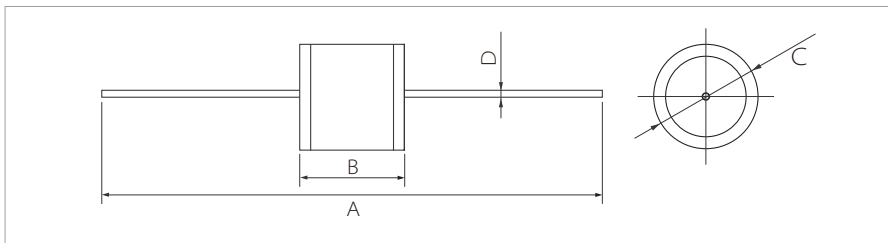
1) In ionized mode

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

ENVIRONMENTAL RELIABILITY CHARACTERISTICS

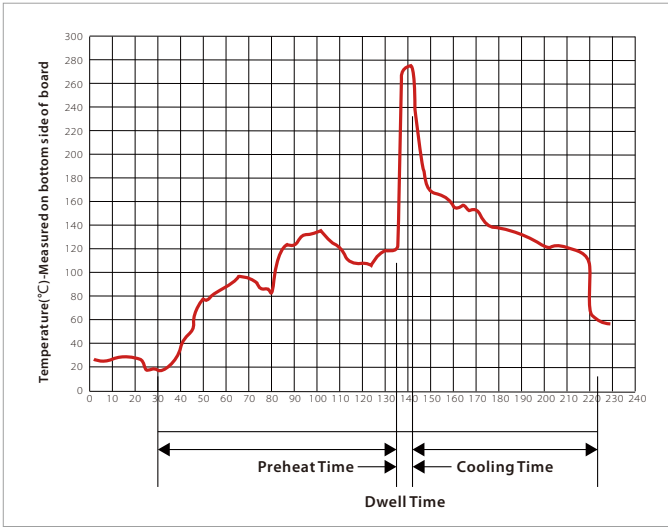
| Testing items | Technical standards |
|-------------------------------|---|
| High Temperature Storage Test | Temperature: 125 $^{\circ}$ C ; Time:2H |
| Low Temperature Storage Test | Temperature: -40 $^{\circ}$ C ; Time:2H |
| Vibration | Frequency: 10-500Hz ; Amplitude: 0.15mm ; Time:45min |
| Resistance of soldering heat | Temperature: 260 \pm 5 $^{\circ}$ C; Time of dip soldering: 10s,1time |

PRODUCT DIMENSIONS



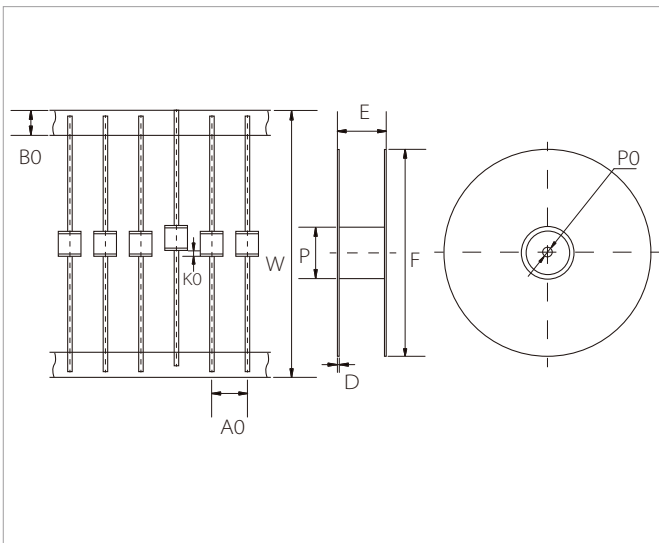
| Ref | Outline Dimensions |
|-----|----------------------|
| | Millimeters |
| A | 62 \pm 2 |
| B | 6 \pm 0.2 |
| C | Φ 8.0 \pm 0.2 |
| D | Φ 0.8 |

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 |
| A0 | 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 |
| P | 82±2 | 3.228±0.079 |
| P0 | Φ16±1 | Φ0.63±0.039 |

ORDERING INFORMATION

| Part Number | Size | Marking | Qty/pcs | |
|-------------|------------|--|---------|--------|
| | | | Reel | Carton |
| SG2R08B230 | Φ8.0*6.0mm |  SG230 08 | 1000 | 4000 |

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