

## FEATURES

- | Size Design  $\Phi 5.5 \times 6.0 \text{mm}$

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- | High Current Handling Capability 5,000A @ 8/20  $\mu\text{s}$

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- | Low Capacitance and Insertion Loss

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- | Quick Response and Long Service Life

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- | Moisture sensitivity level: Level 1

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 $\Phi 5.5 \times 6.0 \text{mm}$ 

## APPLICATION INFORMATION

- | Communication equipment.

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- | Repeaters, Modems

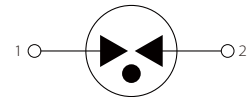
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- | Telephone Interface, Line cards.

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- | Data communication equipment.

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Schematic Symbol

## AGENCY APPROVALS

| Icon  | Solderability                      |
|---|------------------------------------|
| RoHS  | Compliance with 2011/65/EU         |
| HF  | Compliance with IEC61249-2-21:2003 |
|  | Mean lead free                     |

## 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                    | 640-960                                    | V          |
| Impulse Spark-over Voltage        | At 1kV/ $\mu$ s           | for 99 % of measured values $\leq$ 1600    | V          |
|                                   | At 1kV/ $\mu$ s           | Typical values of distribution $\leq$ 1500 | V          |
| Impulse Discharge Current 2)      | 8/20 $\mu$ s $\pm$ 5times | 5  | KA         |
| Insulation Resistance             | DC=100V                   | $\geq$ 1                                   | G $\Omega$ |
| Capacitance at 1MHz               | V <sub>DC</sub> =0.5V     | $\leq$ 1                                   | pF         |
| Operating and Storage Temperature |                           | -40~125                                    | °C         |

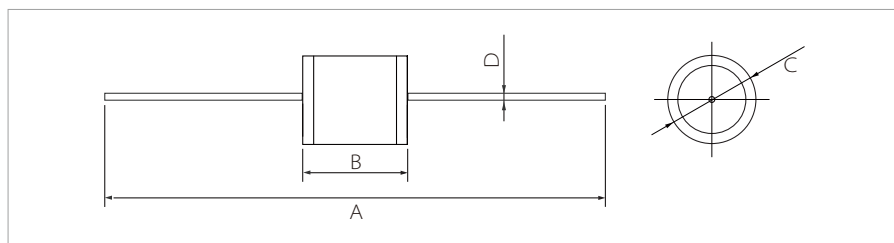
1) In ionized mode

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

## ENVIRONMENTAL RELIABILITY CHARACTERISTICS

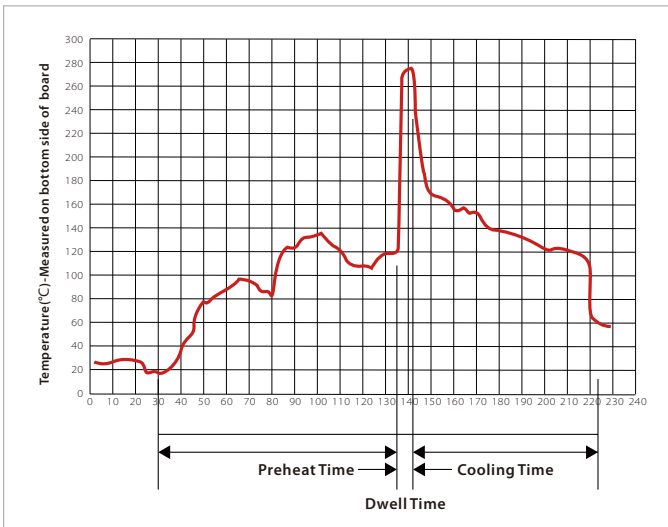
| Testing items                 | Technical standards  |
|-------------------------------|--|
| High Temperature Storage Test | Temperature: 125°C ; Time:2H                                 |
| Low Temperature Storage Test  | Temperature: -40°C ; Time:2H                                 |
| Vibration 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

## PRODUCT DIMENSIONS



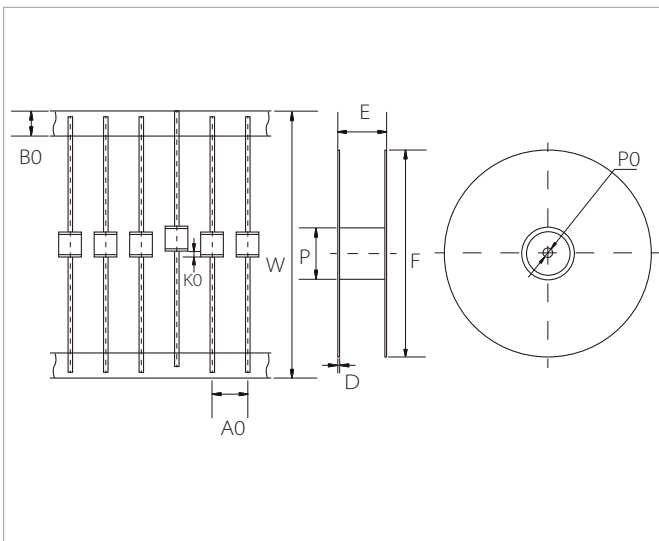
| Ref. | Outline Dimensions   |
|------|----------------------|
|      | Millimeters          |
| A    | 62 $\pm$ 2           |
| B    | 6 $\pm$ 0.2          |
| C    | $\Phi$ 5.5 $\pm$ 0.2 |
| D    | $\Phi$ 0.8           |

## 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 |
| SG2R05B800  | Φ5.5*6.0mm |  SG800 05 | 1000    | 4000   |

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