



## Non Radioactive GDT Tube 5KA SC2E5-600LSMD RoHS compliant

Our Product Introduction

### Basic Information

- Place of Origin: Shenzhen, Guangdong, China
- Brand Name: SOCAY
- Certification: UL, REACH, RoHS, ISO
- Model Number: SC2E5-600LSMD
- Minimum Order Quantity: 1000PCS
- Price: Negotiable
- Delivery Time: 5-8 work days



### Product Specification

- Product Name: Gas Discharge Tube
- Size: 5\*5\*4.2mm
- DC Spark-over Voltage @100V/μs: 600V±20%
- Max. Spark-over Impulse Voltage @100V/μs: 1100V
- Max. Spark-over Impulse Voltage @1KV/μs: 1200V
- Max. Capacitance: 1.0pF
- Nom.Max. Impulse Discharge Current Impulse Discharge Current: 5KA
- Highlight: Non Radioactive GDT Tube, RoHS GDT Tube



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**DATASHEET: [SC2E5-SMD v2110.1.pdf](#)**

| Part Number   | DC Spark-over Voltage | Maximum Impulse Spark-over Voltage |               | Minimum Insulation Resistance | Maximum Capacitance | Arc Voltage | Service Life                      |                                   |                                       |                              |
|---------------|-----------------------|------------------------------------|---------------|-------------------------------|---------------------|-------------|-----------------------------------|-----------------------------------|---------------------------------------|------------------------------|
|               |                       |                                    |               |                               |                     |             | Nominal Impulse Discharge Current | Maximum Impulse Discharge Current | Nominal Alternating Discharge Current | Impulse Life                 |
|               | @100V/S               | @100V/ $\mu$ s                     | @1KV/ $\mu$ s |                               | @1MHz               | @1A         | @8/20 $\mu$ s<br>$\pm$ 5 times    | @8/20 $\mu$ s<br>1 time           | @50Hz<br>1 Sec<br>10 times            | @10/100 $\mu$ s<br>300 times |
| SC2E5-75LSMD  | 75V $\pm$ 20%         | 500V                               | 650V          | 1 G $\Omega$ (at 50V DC)      | 1.0pF               | ~15V        | 5KA                               | 10KA                              | 5A                                    | 100A                         |
| SC2E5-90LSMD  | 90V $\pm$ 20%         | 500V                               | 650V          | 1 G $\Omega$ (at 50V DC)      | 1.0pF               | ~15V        | 5KA                               | 10KA                              | 5A                                    | 100A                         |
| SC2E5-150LSMD | 150V $\pm$ 20%        | 500V                               | 650V          | 1 G $\Omega$ (at 50V DC)      | 1.0pF               | ~20V        | 5KA                               | 10KA                              | 5A                                    | 100A                         |
| SC2E5-200LSMD | 200V $\pm$ 20%        | 500V                               | 650V          | 1 G $\Omega$ (at 100V DC)     | 1.0pF               | ~20V        | 5KA                               | 10KA                              | 5A                                    | 100A                         |
| SC2E5-230LSMD | 230V $\pm$ 20%        | 600V                               | 700V          | 1 G $\Omega$ (at 100V DC)     | 1.0pF               | ~20V        | 5KA                               | 10KA                              | 5A                                    | 100A                         |
| SC2E5-300LSMD | 300V $\pm$ 20%        | 700V                               | 800V          | 1 G $\Omega$ (at 100V DC)     | 1.0pF               | ~20V        | 5KA                               | 10KA                              | 5A                                    | 100A                         |
| SC2E5-350LSMD | 350V $\pm$ 20%        | 700V                               | 800V          | 1 G $\Omega$ (at 100V DC)     | 1.0pF               | ~20V        | 5KA                               | 10KA                              | 5A                                    | 100A                         |
| SC2E5-420LSMD | 420V $\pm$ 20%        | 800V                               | 950V          | 1 G $\Omega$ (at 100V DC)     | 1.0pF               | ~20V        | 5KA                               | 10KA                              | 5A                                    | 100A                         |
| SC2E5-470LSMD | 470V $\pm$ 20%        | 900V                               | 1000V         | 1 G $\Omega$ (at 100V DC)     | 1.0pF               | ~20V        | 5KA                               | 10KA                              | 5A                                    | 100A                         |
| SC2E5-600LSMD | 600V $\pm$ 20%        | 1100V                              | 1200V         | 1 G $\Omega$ (at 100V DC)     | 1.0pF               | ~20V        | 5KA                               | 10KA                              | 5A                                    | 100A                         |
| SC2E5-800LSMD | 800V $\pm$ 20%        | 1200V                              | 1400V         | 1 G $\Omega$ (at 100V DC)     | 1.0pF               | ~20V        | 5KA                               | 10KA                              | 5A                                    | 100A                         |

**Notes:**  
Terms in accordance with ITU-T K.12 and GB/T 9043-2008  
At delivery AQL 0.65 level , DIN ISO 2859



#### Description

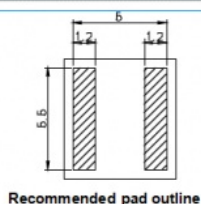
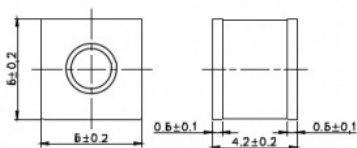
Gas discharge Tubes (GDT) are classical components for protecting the installations of the telecommunications. It is essential that IT and telecommunications systems -with their high-grade but sensitive electronic circuits - be protected by arresters. They are thus fitted at the input of the power supply system together with varistors and at the connection points to telecommunication lines. They have become equally indispensable for protecting base stations in mobile telephone systems as well as extensive cable television (CATV) networks with their repeaters and distribution systems.

These protective components are also indispensable in other sectors, In AC power transmission systems, they are often used with current-limiting varistors, In customer premises equipment such as DSL modems, WLAN routers, TV sets and cable modems In air-conditioning equipment, the integral black-box concept offers graduated protection by combining arresters with varistors, PTC, diodes and inductor.

#### Features:

- Non-Radioactive
- RoHS compliant
- Low insertion loss
- Excellent response to fast rising transients
- Ultra low capacitance
- 5KA surge capability tested with 8/20 $\mu$ s pulse as defined by IEC 61000-4-5

#### Device Dimensions (Unit: mm)





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