



## SC2E8-230H Ceramic Gas Discharge Tube 230V 1.5pF 2-Electrode GDT For CATV Equipment

Our Product Introduction

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### Basic Information

- Place of Origin: Shenzhen, Guangdong, China
- Brand Name: SOCAY
- Certification: UL, REACH, RoHS, ISO
- Model Number: SC2E8-230H
- Minimum Order Quantity: 1000PCS
- Price: Negotiable
- Delivery Time: 5-8 work days



### Product Specification

- Product Name: Gas Discharge Tube
- Size:  $\phi 8 \times 6\text{mm}$
- DC Spark-over Voltage @100V/ $\mu\text{s}$ :  $230\text{V} \pm 20\%$
- Max. Spark-over Impulse Voltage @100V/ $\mu\text{s}$ : 600V
- Max. Spark-over Impulse Voltage @1KV/ $\mu\text{s}$ : 700V
- Max. Capacitance: 1.5pF
- Nom. Impulse Discharge Current: 20KA
- Storage Temperature:  $-40^{\circ}\text{C} \sim +90^{\circ}\text{C}$
- Arc Voltage: 20V
- Highlight: Gas Discharge Tube 1.5pF,  
Gas Discharge Tube 230V



### Product Description

230V 1.5pF Ceramic Gas Discharge Tube SC2E8-230H, SOCAY 2-Electrode GDT for CATV Equipment

**DATASHEET: SC2E8\_v91.1.pdf**

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.

| Part Number                                | Marking       | DC Spark-over Voltage | Maximum Impulse Spark-over Voltage |               | Minimum Insulation Resistance | Maximum Capacitance | Arc Voltage | Service Life                      |                               |                                   |                   |
|--------------------------------------------|---------------|-----------------------|------------------------------------|---------------|-------------------------------|---------------------|-------------|-----------------------------------|-------------------------------|-----------------------------------|-------------------|
|                                            |               |                       |                                    |               |                               |                     |             | Nominal Impulse Discharge Current | Max Impulse Discharge Current | Nominal Impulse Discharge Current | Impulse           |
|                                            |               | @100V/S               | @100V/ $\mu$ s                     | @1KV/ $\mu$ s |                               | @1MHz               | @1A         | @8/20 $\mu$ s $\pm$ 5 times       | @8/20 $\mu$ s 1 time          | @50Hz 1 Sec 10 times              | @10/100 300 times |
| SC2E8-75H<br>SC2E8-75HL<br>SC2E8-75HSMD    | SOCAY<br>75H  | 75V $\pm$ 20%         | 500V                               | 600V          | 1 G $\Omega$ (at 25V)         | 1.5pF               | ~15V        | 20KA                              | 25KA                          | 20A                               | 200A              |
| SC2E8-90H<br>SC2E8-90HL<br>SC2E8-90HSMD    | SOCAY<br>90H  | 90V $\pm$ 20%         | 500V                               | 600V          | 1 G $\Omega$ (at 50V)         | 1.5pF               | ~15V        | 20KA                              | 25KA                          | 20A                               | 200A              |
| SC2E8-150H<br>SC2E8-150HL<br>SC2E8-150HSMD | SOCAY<br>150H | 150V $\pm$ 20%        | 500V                               | 600V          | 1 G $\Omega$ (at 50V)         | 1.5pF               | ~20V        | 20KA                              | 25KA                          | 20A                               | 200A              |
| SC2E8-230H<br>SC2E8-230HL<br>SC2E8-230HSMD | SOCAY<br>230H | 230V $\pm$ 20%        | 600V                               | 700V          | 1 G $\Omega$ (at 100V)        | 1.5pF               | ~20V        | 20KA                              | 25KA                          | 20A                               | 200A              |
| SC2E8-250H<br>SC2E8-250HL<br>SC2E8-250HSMD | SOCAY<br>250H | 250V $\pm$ 20%        | 700V                               | 800V          | 1 G $\Omega$ (at 100V)        | 1.5pF               | ~20V        | 20KA                              | 25KA                          | 20A                               | 200A              |
| SC2E8-300H<br>SC2E8-300HL<br>SC2E8-300HSMD | SOCAY<br>300H | 300V $\pm$ 20%        | 800V                               | 900V          | 1 G $\Omega$ (at 100V)        | 1.5pF               | ~20V        | 20KA                              | 25KA                          | 20A                               | 200A              |
| SC2E8-350H<br>SC2E8-350HL<br>SC2E8-350HSMD | SOCAY<br>350H | 350V $\pm$ 20%        | 800V                               | 900V          | 1 G $\Omega$ (at 100V)        | 1.5pF               | ~20V        | 20KA                              | 25KA                          | 20A                               | 200A              |
| SC2E8-420H<br>SC2E8-420HL<br>SC2E8-420HSMD | SOCAY<br>420H | 420V $\pm$ 20%        | 900V                               | 1000V         | 1 G $\Omega$ (at 100V)        | 1.5pF               | ~20V        | 20KA                              | 25KA                          | 20A                               | 200A              |
| SC2E8-470H<br>SC2E8-470HL<br>SC2E8-470HSMD | SOCAY<br>470H | 470V $\pm$ 20%        | 900V                               | 1000V         | 1 G $\Omega$ (at 100V)        | 1.5pF               | ~20V        | 20KA                              | 25KA                          | 20A                               | 200A              |
| SC2E8-600H<br>SC2E8-600HL<br>SC2E8-600HSMD | SOCAY<br>600H | 600V $\pm$ 20%        | 1100V                              | 1200V         | 1 G $\Omega$ (at 100V)        | 1.5pF               | ~20V        | 20KA                              | 25KA                          | 20A                               | 200A              |
| SC2E8-800H<br>SC2E8-800HL<br>SC2E8-800HSMD | SOCAY<br>800H | 800V $\pm$ 20%        | 1200V                              | 1400V         | 1 G $\Omega$ (at 100V)        | 1.5pF               | ~20V        | 20KA                              | 25KA                          | 20A                               | 200A              |

**Notes:**

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



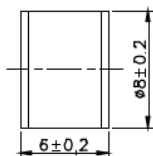
#### Features

- ◆ Non-Radioactive
- ◆ RoHS compliant
- ◆ High insulation resistance
- ◆ Excellent response to fast rising transients
- ◆ Ultra low capacitance
- ◆ 10~20KA surge capability tested with 8/20 $\mu$ s pulse as defined by IEC 61000-4-5

#### Applications

- ◆ Communication lines and equipment
- ◆ CATV equipment
- ◆ Test equipment
- ◆ Data lines
- ◆ Power supplies
- ◆ Instrumentation circuits
- ◆ Medical electronics
- ◆ ADSL equipment
- ◆ Telecom SLIC protection

#### Without wire Devices (SC2E8-XXXM/H)



#### Cautions and Warnings:

Gas discharge tubes (GDT) must not be operated directly in power supply networks.

Gas discharge tubes (GDT) may become hot in case of longer periods of current stress (danger of burning).

Gas discharge tubes (GDT) may be used only within their specified values. In the event of overload, the head contacts may fail or the component may be destroyed.

Damaged Gas discharge tubes (GDT) must not be re-used.



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