



Ceramic Gas Discharge Tube SC2E8-90HL Axial Leaded GDT For Telecom SLIC Protection

Basic Information

- Place of Origin: Shenzhen, Guangdong, China
- Brand Name: SOCAY
- Certification: UL, REACH, RoHS, ISO
- Model Number: SC2E8-99L
- Minimum Order Quantity: 1000PCS
- Price: Negotiable
- Delivery Time: 5-8 work days



Product Specification

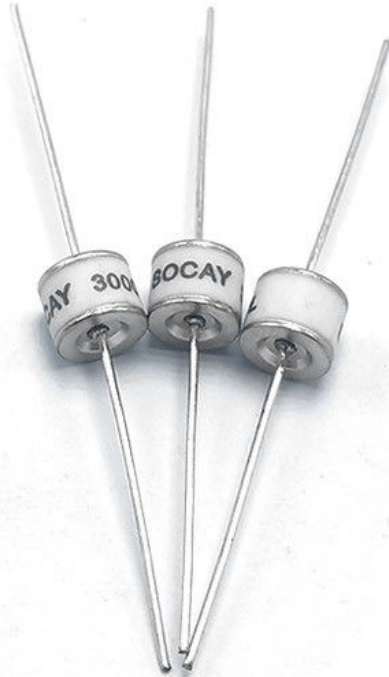
- Product Name: Gas Discharge Tube
- Size: $\phi 8 \times 6 \text{mm}$
- DC Spark-over Voltage @100V/ μs : $90 \text{V} \pm 20\%$
- Max. Spark-over Impulse Voltage @100V/ μs : 500V
- Max. Spark-over Impulse Voltage @1KV/ μs : 600V
- Min. Insulation Resistance: $1 \text{G}\Omega$ (@50V)
- Nom. Impulse Discharge Current: 20KA
- Max. Impulse Discharge Current: 25KA
- Storage Temperature: $-40^\circ\text{C} \sim +90^\circ\text{C}$
- Max. Capacitance: 1.5pF
- Highlight: Gas Discharge Tube Axial Leaded, Gas Discharge Tube GDT



Product Description

90V±20% Ceramic Gas Discharge Tube SC2E8-90HL, Axial Leaded GDT for Telecom SLIC Protection

DATASHEET: [SC2E8_v91.1.pdf](#)



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 Life
		@100V/S	@100V/ μ s	@1KV/ μ s		@1MHz	@1A	@8/20 μ s $\pm$ 5 times	@8/20 μ s 1 time	@50Hz 1 Sec 10 times	@10/1000 μ s 300 times
SC2E8-75H SC2E8-75HL SC2E8-75HSMD	SOCAY 75H	75V $\pm$ 20%	500V	600V	1 G Ω (at 25V)	1.5pF	~15V	20KA	25KA	20A	200A
SC2E8-90H SC2E8-90HL SC2E8-90HSMD	SOCAY 90H	90V $\pm$ 20%	500V	600V	1 G Ω (at 50V)	1.5pF	~15V	20KA	25KA	20A	200A
SC2E8-150H SC2E8-150HL SC2E8-150HSMD	SOCAY 150H	150V $\pm$ 20%	500V	600V	1 G Ω (at 50V)	1.5pF	~20V	20KA	25KA	20A	200A

SC2E8-230H SC2E8-230HL SC2E8-230HSM D	SO CA Y 230	230V ±20%	600V	700V	1 GΩ (at 100V)	1.5pF	~20V	20KA	25KA	20A	200A
SC2E8-250H SC2E8-250HL SC2E8-250HSM D	SO CA Y 250	250V ±20%	700V	800V	1 GΩ (at 100V)	1.5pF	~20V	20KA	25KA	20A	200A
SC2E8-300H SC2E8-300HL SC2E8-300HSM D	SO CA Y 300	300V ±20%	800V	900V	1 GΩ (at 100V)	1.5pF	~20V	20KA	25KA	20A	200A
SC2E8-350H SC2E8-350HL SC2E8-350HSM D	SO CA Y 350	350V ±20%	800V	900V	1 GΩ (at 100V)	1.5pF	~20V	20KA	25KA	20A	200A
SC2E8-420H SC2E8-420HL SC2E8-420HSM D	SO CA Y 420	420V ±20%	900V	1000V	1 GΩ (at 100V)	1.5pF	~20V	20KA	25KA	20A	200A
SC2E8-470H SC2E8-470HL SC2E8-470HSM D	SO CA Y 470	470V ±20%	900V	1000V	1 GΩ (at 100V)	1.5pF	~20V	20KA	25KA	20A	200A
SC2E8-600H SC2E8-600HL SC2E8-600HSM D	SO CA Y 600	600V ±20%	1100V	1200V	1 GΩ (at 100V)	1.5pF	~20V	20KA	25KA	20A	200A
SC2E8-800H SC2E8-800HL SC2E8-800HSM D	SO CA Y 800	800V ±20%	1200V	1400V	1 GΩ (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											

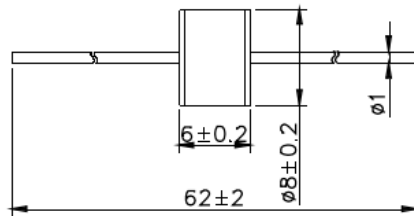
Applications:

Communication equipment.
CATV equipment.
Test equipment.
Data lines.
Power supplies.
Telecom SLIC protection.
Broadband equipment.
ADSL equipment, including ADSL2+.
XDSL equipment.
Satellite and CATV equipment.
Consumer electronics.

Product Characteristics

Materials	Leaded Device: Nickel-plated with Tinplated wires Surface Mount: Dull Tin-plated	
Product Marking	SOCAY XXXM/H XXX -Nominal voltage M - 10KA H - 20KA	
Glow to Arc Transition Current	< 0.5 Amps	
Glow Voltage	~60 Volts	
Storage and Operational Temperature	-40 to +90°C	
Weight	SC2E8-XXXML	~1.5g
	SC2E8-XXXHL	~1.6g
	SC2E8-XXXM/H	~1.35g
	SC2E8-XXXM/HSMD	~1.5g
Climatic category (IEC 60068-1)	40/ 90/ 21	

Axial Leaded Devices (SC2E8-XXXHL)



Electrical Rating

Item	Test Condition / Description	Requirement
DC Spark-over Voltage	The voltage is measured with a slowly rate of rise $dv/dt=100V/s$	To meet the specified value
Impulse Spark-over Voltage	The maximum impulse spark-over voltage is measured with a rise time of $dv/dt=100V/\mu s$ or $1KV/\mu s$	
Insulation Resistance	The resistance of gas tube shall be measured each terminal each other terminal, please see above spec.	
Capacitance	The capacitance of gas tube shall be measured each terminal to each other terminal. Test frequency :1MHz	
Nominal Impulse Discharge Current	The maximum current applying a waveform of $8/20\mu s$ that can be applied across the terminals of the gas tube. One hour after the test is completed, re-testing of the DC spark-over voltage does not exceed $\pm 30\%$ of the nominal DC spark-over voltage. Dwell time between pulses is 3 minutes. 	
Nominal Alternating Discharge Current	Rated RMS value of AC current at 50Hz, 1 sec. 10 times. Intervals: 3min. The DC spark-over voltage does not exceed $\pm 30\%$ of the nominal DC spark-over voltage. $IR > 10^8\Omega$	

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