



Surge Arrester Ceramic GDT Tube SC2E5-800LL For Communication Equipment

Our Product Introduction

Basic Information

- Place of Origin: Shenzhen, Guangdong, China
- Brand Name: SOCAY
- Certification: UL, REACH, RoHS, ISO
- Model Number: SC2E5-800LL
- Minimum Order Quantity: 1000PCS
- Price: Negotiable
- Delivery Time: 5-8 work days



Product Specification

- Product Name: Gas Discharge Tube
- Size: $\phi 5.5 \times 6\text{mm}$
- DC Spark-over Voltage @100V/ μs : $800\text{V} \pm 20\%$
- Max. Spark-over Impulse Voltage @100V/ μs : 1200V
- Max. Spark-over Impulse Voltage @1KV/ μs : 1400V
- Max. Capacitance: 1.0pF
- Arc Voltage @1A: 15V
- Nom.Max. Impulse Discharge Current Impulse Discharge Current: 5KA
- Storage Temperature: $-40^{\circ}\text{C} \sim +90^{\circ}\text{C}$
- Impulse Life: 100A
- Highlight: 800V GDT Tube, GDT Tube SC2E5-800LL



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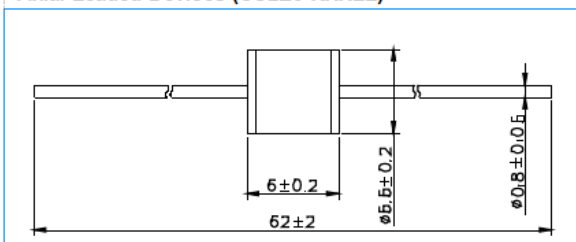
Product Description

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DATASHEET: [SC2E5_v91.1.pdf](#)

Dimensions (Unit: mm)

Axial Leaded Devices (SC2E5-XXXLL)



Descriptions:

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.

Electrical Characteristics

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 Alternating Discharge Current	Impulse Life
		@100V/S	@100V/μs	@1KV/μs				@1MHz	@1A	@8/20μs ±5 times	@8/20μs 1 time
SC2E5-75LL SC2E5-75L	SOCAY 75L	75V±20%	<500V	<600V	1 GΩ (at 25V)	<1.0pF	~15V	5KA	10KA	5A	100A
SC2E5-90LL SC2E5-90L	SOCAY 90L	90V±20%	<500V	<600V	1 GΩ (at 50V)	<1.0pF	~15V	5KA	10KA	5A	100A
SC2E5-150LL SC2E5-150L	SOCAY 150L	150V±20%	<500V	<600V	1 GΩ (at 50V)	<1.0pF	~20V	5KA	10KA	5A	100A
SC2E5-230LL SC2E5-230L	SOCAY 230L	230V±20%	<600V	<700V	1 GΩ (at 100V)	<1.0pF	~20V	5KA	10KA	5A	100A
SC2E5-250LL SC2E5-250L	SOCAY 250L	250V±20%	<700V	<800V	1 GΩ (at 100V)	<1.0pF	~20V	5KA	10KA	5A	100A
SC2E5-300LL SC2E5-300L	SOCAY 300L	300V±20%	<800V	<900V	1 GΩ (at 100V)	<1.0pF	~20V	5KA	10KA	5A	100A
SC2E5-350LL SC2E5-350L	SOCAY 350L	350V±20%	<800V	<900V	1 GΩ (at 100V)	<1.0pF	~20V	5KA	10KA	5A	100A
SC2E5-420LL SC2E5-420L	SOCAY 420L	420V±20%	<900V	<1000V	1 GΩ (at 100V)	<1.0pF	~20V	5KA	10KA	5A	100A
SC2E5-470LL SC2E5-470L	SOCAY 470L	470V±20%	<900V	<1000V	1 GΩ (at 100V)	<1.0pF	~20V	5KA	10KA	5A	100A
SC2E5-600LL SC2E5-600L	SOCAY 600L	600V±20%	<1100V	<1200V	1 GΩ (at 100V)	<1.0pF	~20V	5KA	10KA	5A	100A
SC2E5-800LL SC2E5-800L	SOCAY 800L	800V±20%	<1200V	<1400V	1 GΩ (at 100V)	<1.0pF	~20V	5KA	10KA	5A	100A

Notes:

- Terms in accordance with IEC 61643-11 and GB/T 1983-2008
- At delivery AQL 0.65 level II, DIN ISO 2859

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 Alternating Discharge Current	Impulse Life
		@100V/S	@100V/μs	@1KV/μs		@1MHz	@1A	@8/20μs ±5 times	@8/20μs 1 time	@50Hz 1 Sec 10 times	@10/1000μs 300 times

SC2E5-75LL	SOCAY7	75V±20%	500V	600V	1 GΩ (at 25V)	1.0pF	~15V	5KA	10KA	5A	100A
SC2E5-75L	5L										
SC2E5-90LL	SOCAY9	90V±20%	500V	600V	1 GΩ (at 50V)	1.0pF	~15V	5KA	10KA	5A	100A
SC2E5-90L	0L										
SC2E5-150LL	SOCAY1	150V±20%	500V	600V	1 GΩ (at 50V)	1.0pF	~20V	5KA	10KA	5A	100A
SC2E5-150L	50L										
SC2E5-230LL	SOCAY2	230V±20%	600V	700V	1 GΩ (at 100V)	1.0pF	~20V	5KA	10KA	5A	100A
SC2E5-230L	30L										
SC2E5-250LL	SOCAY2	250V±20%	700V	800V	1 GΩ (at 100V)	1.0pF	~20V	5KA	10KA	5A	100A
SC2E5-250L	50L										
SC2E5-300LL	SOCAY3	300V±20%	800V	900V	1 GΩ (at 100V)	1.0pF	~20V	5KA	10KA	5A	100A
SC2E5-300L	00L										
SC2E5-350LL	SOCAY3	350V±20%	800V	900V	1 GΩ (at 100V)	1.0pF	~20V	5KA	10KA	5A	100A
SC2E5-350L	50L										
SC2E5-420LL	SOCAY4	420V±20%	900V	1000V	1 GΩ (at 100V)	1.0pF	~20V	5KA	10KA	5A	100A
SC2E5-420L	20L										
SC2E5-470LL	SOCAY4	470V±20%	900V	1000V	1 GΩ (at 100V)	1.0pF	~20V	5KA	10KA	5A	100A
SC2E5-470L	70L										
SC2E5-600LL	SOCAY6	600V±20%	1100V	1200V	1 GΩ (at 100V)	1.0pF	~20V	5KA	10KA	5A	100A
SC2E5-600L	00L										
SC2E5-800LL	SOCAY8	800V±20%	1200V	1400V	1 GΩ (at 100V)	1.0pF	~20V	5KA	10KA	5A	100A
SC2E5-800L	00L										

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

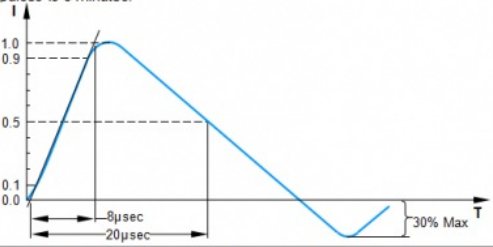
Low insertion loss

Excellent response to fast rising transients

Ultra low capacitance

5KA surge capability tested with 8/20μs pulse as defined by IEC 61000-4-5

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 8/20μs 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. $IR > 10^9\Omega$	

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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