



2-Electrode Ceramic Gas Tube Arrestor GDT 5KA Surge Capability SC2E5-600L

Our Product Introduction

Basic Information

- Place of Origin: Shenzhen, Guangdong, China
- Brand Name: SOCAY
- Certification: UL, REACH, RoHS, ISO
- Model Number: SC2E5-600L
- 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 : $600\text{V} \pm 20\%$
- 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
- Max. Impulse Discharge Current: 10KA
- Nom. Alternating Discharge Current: 5A
- Highlight: **Gas Tube Arrestor 5KA,
2-Electrode Gas Tube Arrestor SC2E5-600L**



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Product Description

5KA Surge Capability Gas Discharge Tube SC2E5-600L, 2-Electrode Ceramic Gas Tube Arrester

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

Electrical Characteristics											
Part Number	Marking	DC Spark-over Voltage	Maximum Impulse Spark-over Voltage		Minimum Insulation Resistance	Maximum Capacitance	Arc Voltage	Service Life			
			@100V/S	@100V/μs				@1KV/μs	Nominal Impulse Discharge Current	Max Impulse Discharge Current	Nominal Alternating Discharge Current
						@1MHz	@1A	@8/20μs ±5 times	@8/20μs 1 time	@50Hz 1 Sec 10 times	@10/1000μs 300 times
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:

1). Terms in accordance with IEC 61643-11 and GB/T 1983-2008

2). At delivery AQL 0.65 level II, DIN ISO 2859

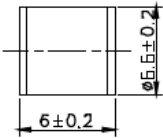
Part Number	Marking	DC Spark-over Voltage	Maximum Impulse Spark-over Voltage		Minimum Insulation Resistance	Maximum Capacitance	Arc Voltage	Service Life			
		@100V/S	@100V/μs	@1KV/μs				Nominal Impulse Discharge Current	Max Impulse Discharge Current	Nominal Alternating Discharge Current	Impulse Life
						@1MHz	@1A	@8/20μs ±5 times	@8/20μs 1 time	@50Hz 1 Sec 10 times	@10/1000μs 300 times
SC2E5-75LL SC2E5-75L	SOCAY7 5L	75V±20%	500V	600V	1 GΩ (at 25V)	1.0pF	~15V	5KA	10KA	5A	100A
SC2E5-90LL SC2E5-90L	SOCAY9 0L	90V±20%	500V	600V	1 GΩ (at 50V)	1.0pF	~15V	5KA	10KA	5A	100A
SC2E5-150LL SC2E5-150L	SOCAY1 50L	150V±20%	500V	600V	1 GΩ (at 50V)	1.0pF	~20V	5KA	10KA	5A	100A
SC2E5-230LL SC2E5-230L	SOCAY2 30L	230V±20%	600V	700V	1 GΩ (at 100V)	1.0pF	~20V	5KA	10KA	5A	100A
SC2E5-250LL SC2E5-250L	SOCAY2 50L	250V±20%	700V	800V	1 GΩ (at 100V)	1.0pF	~20V	5KA	10KA	5A	100A
SC2E5-300LL SC2E5-300L	SOCAY3 00L	300V±20%	800V	900V	1 GΩ (at 100V)	1.0pF	~20V	5KA	10KA	5A	100A
SC2E5-350LL SC2E5-350L	SOCAY3 50L	350V±20%	800V	900V	1 GΩ (at 100V)	1.0pF	~20V	5KA	10KA	5A	100A
SC2E5-420LL SC2E5-420L	SOCAY4 20L	420V±20%	900V	1000V	1 GΩ (at 100V)	1.0pF	~20V	5KA	10KA	5A	100A
SC2E5-470LL SC2E5-470L	SOCAY4 70L	470V±20%	900V	1000V	1 GΩ (at 100V)	1.0pF	~20V	5KA	10KA	5A	100A
SC2E5-600LL SC2E5-600L	SOCAY6 00L	600V±20%	1100V	1200V	1 GΩ (at 100V)	1.0pF	~20V	5KA	10KA	5A	100A

SC2E5-800LL	SOCAY800L	800V±20%	1200V	1400V	1 GΩ (at 100V)	1.0pF	~20V	5KA	10KA	5A	100A
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											

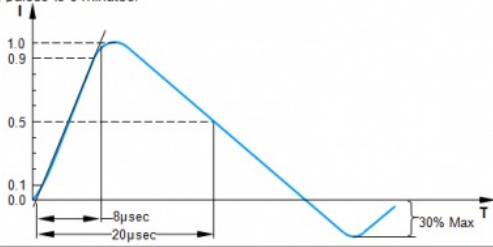


- Applications**
- Communication equipment
 - CATV equipment
 - Test equipment
 - Data lines
 - Power supplies
 - Telecom SLIC protection
 - Broadband equipment
 - ADSL equipment, including ADSL2+
 - XDSL equipment
 - Satellite and CATV equipment
 - Consumer electronics

Without wire Devices (SC2E5-XXXL)



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. $IR > 10^9 \Omega$	

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