



2-Electrode Gas Discharge Tube GDT SC2E5-90LL 90V Axial Leaded Device

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: SC2E5-90LL
- Minimum Order Quantity: 3000PCS
- Price: Negotiable
- Delivery Time: 1-3week



Product Specification

- Other Name: Arrester Tube
- Package Size: $\phi 5.5 \times 6\text{mm}$
- 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 DC)
- Max. Capacitance: 1.0pF
- Arc Voltage @1A: 15V
- Nom. Max. Impulse Discharge Current Impulse Discharge Current: 5KA
- Operating Temperature: $-40^{\circ}\text{C} \sim +90^{\circ}\text{C}$
- Storage Temperature: $-40^{\circ}\text{C} \sim +90^{\circ}\text{C}$
- Max. Impulse Discharge: 10KA



More Images



Product Description

2-Electrode Gas Discharge Tube (GDT) SC2E5-90LL, 90V Axial Leaded Devices

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

GDT Classification

Surface Mount(package size):1206,1210,1812

DIP:2-Electrode,3-Electrode

DC Voltage:75V~800V

High DC Voltage :1000V~6000V

Current:0.5KA~20KA

Response Time≤100NS,SWITH components

Electrical Characteristics

Part Number	Marking	DC Spark-over Voltage	Maximum Impulse Spark-over Voltage		Minimum Insulation Resistance	Maximum Capacitance	Arc Voltage	Service Life			
			@100V/μs	@1KV/μs				Nominal Impulse Discharge Current	Max Impulse Discharge Current	Nominal Alternating Discharge Current	Impulse Life
		@100V/μs	@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 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 61074-1 and GB/T 9043-2008
 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/μs	@1KV/μs				Nominal Impulse Discharge Current	Max Impulse Discharge Current	Nominal Alternating Discharge Current	Impulse Life
		@100V/μs	@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 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	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

Applications:

power module, isolator, inverter, medical equipment,
485 converter, communication products
(optical terminal machine, MODEL,
communication base station),
stabilizer, security products, lightning arrester.



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