



Multilayer Ceramic Chip Varistor SV0402E9R0G0B SMD Type Zinc Oxide Varistor

Our Product Introduction

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Basic Information

- Place of Origin: Shenzhen Guangdong China
- Brand Name: SOCAY
- Certification: REACH RoHS ISO
- Model Number: SV0402E9R0G0B
- Minimum Order Quantity: 10000PCS
- Price: Negotiable
- Delivery Time: 5-8 work days



Product Specification

- Other Name: MLV Varistor
- Package Type: SMD0402
- Vdc (Max.): 9V
- Vv (Min.): 11V
- Vv (Max.): 17V
- Vc (Max.): 35V
- Imax: 1A
- Cp (Typ.): 5pF
- Highlight: Multilayer Ceramic Chip Varistor,
SMD Ceramic Chip Varistor,
SMD Zinc Oxide Varistor



More Images



Product Description

Multilayer Chip Varistor SV0402E9R0G0B SMD Type Zinc Oxide Based Ceramic Chip

Multilayer Chip Varistor DATASHEET: [SV0402E9R0G0B_v89.1.pdf](#)

Description:

The most used voltage limiting device is the varistor MOV/MLV, which is mainly made of zinc oxide and a variety of trace metal oxides, which are mixed and moulded.

Electrical Characteristics (25±5):

Symbol	Minimum	Typical	Maximum	Units
VDC	—	—	9	V
VV	11	—	17	V
VC	—	—	35	V
CP	—	5	—	pF

VDC – Maximum DC operating voltage the varistor can maintain and not exceed 10μA leakage current.

VV – Voltage across the device measure at 1mA DC current.

Equivalent to VB “breakdown voltage”

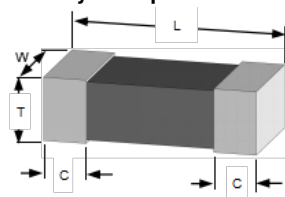
VC – Maximum peak current across the varistor with 8/20μs waveform and 1A pulse current.

CP – Device capacitance measured with zero volt bias 1Vrms at 1MHz. The pF is ±30%.

Multilayer Chip Varistor Applications:

Power protection, Switches, POS machines, Lightning arresters, Building intercoms, Monitoring systems, Parking cards, Transmission systems, Instrumentation, Meters, Communication products, Control panels.

Multilayer Chip Varistor Construction & Dimensions:



Size EIA (EIAJ)	0402 (1005)	
Symbol	Inches	Millimeters
L	0.038±0.005	0.96±0.12
W	0.019±0.003	0.48±0.07
T	0.020±0.004	0.50±0.10
C	0.010±0.006	0.25±0.15

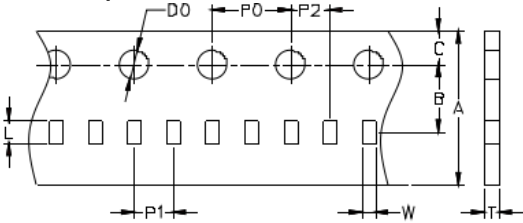
General Technical Data:

Operating Temperature		-40 ~ +85°C
Storage Temperature		-40 ~ +85°C
Response Time		<1 ns
Solderability		245±5°C, 3±1sec
Solder leach resistance		260±5°C, 10±1sec
Taping Package Storage Condition	Storage Temperature	5 ~ 40°C
	Relative Humidity	To 65%
	Storage Time	12 Months max

Environmental Performance:

Item	Specifications	Test Condition
Bias Humidity	$\Delta V_V / V_V \leq \pm 10 \%$	90%RH, 40°C, Working Voltage, 1000 hrs
Thermal Shock	$\Delta V_V / V_V \leq \pm 10 \%$	-40°C to 85°C, 30 min. cycle, 5 cycles
Full Load Voltage	$\Delta V_V / V_V \leq \pm 10 \%$	Working Voltage, 85°C, 1000 hrs

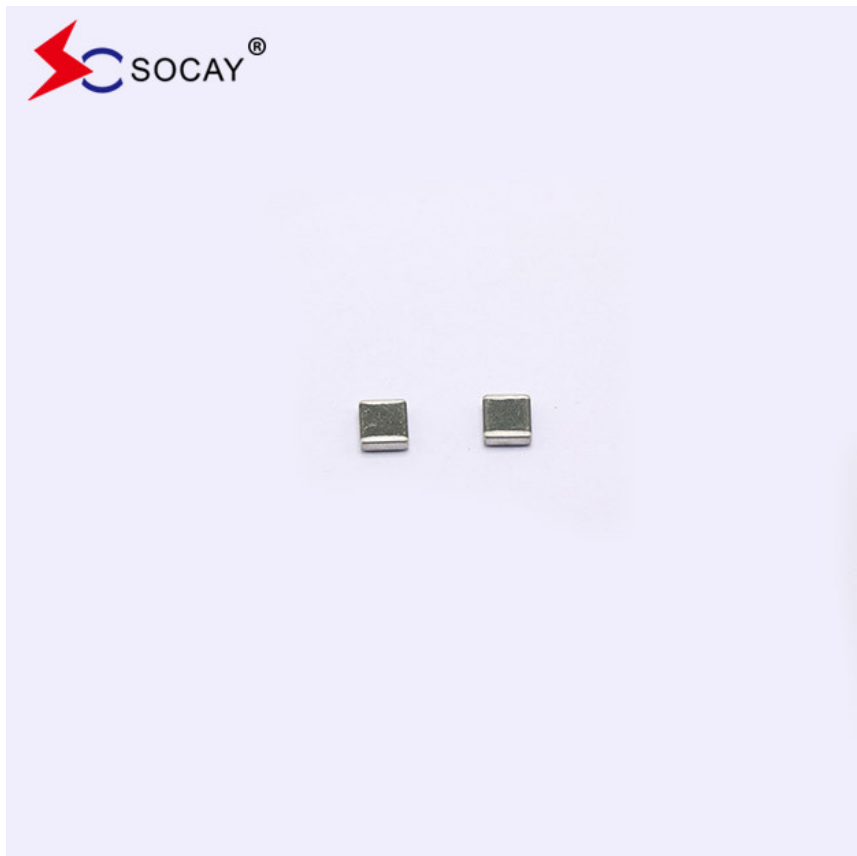
Carrier Tape Dimension:



Size EIA (EIAJ)	0402 (1005)	
Symbol	Inches	Millimeters
A	0.315±0.012	8.00±0.30
B	0.138±0.002	3.50±0.05
C	0.069±0.002	1.75±0.05
D0	0.061±0.002	1.55±0.05
P0	0.157±0.004	4.00±0.10
P1	0.079±0.002	2.00±0.05
P2	0.079±0.002	2.00±0.05
W	0.023±0.001	0.59±0.03
L	0.044±0.001	1.12±0.03
T	0.024±0.001	0.60±0.03

Quantity of Products in the Taping Package:

SIZE EIA (EIAJ)	0402 (1005)
Standard Packing Quantity (PCS / reel)	10,000



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