

90-500V Ceramic Gas Discharge Tubes

1. Description

ES3DS90-500N ceramic gas discharge tubes, are commonly used to help protect sensitive telecom equipment such as communication lines, signal lines and data transmission lines from damage caused by transient surge voltages that typically result from lightning strikes and equipment switching operations. offer excellent surge protection characteristics, low capacitance and a broad array of breakover voltage levels, making them suitable for applications such as high data-rate telecom communication network protection (e.g. ADSL, VDSL).

2. Features

- Standard size
- Fast response time
- Stable performance
- Low capacitance
- High insulation resistance
- RoHS-compatible

3. Applications

- Power supply
- Consumer electronics
- Air-con

4. Product characteristics

Part Number	Physical dimensions	Packing	Quantity per reel
ES3DS90-500N	3.2mm*1.6mm*1.6mm	Tape & Reel	2,500 PCS

Table-1 Ordering information

5. Certification




Approvals	Outline	Electrode GDT Graphical Symbol
		

Table-2 Certification

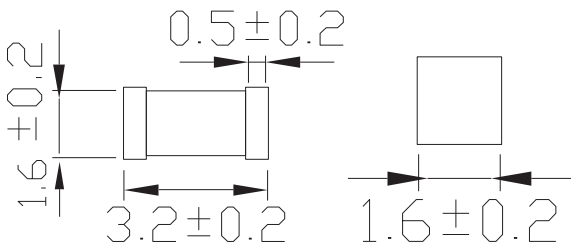
6. Electrical Characteristics

Part Number	DC Spark Over Volts(100v/s)	Impulse Spark Over Voltage(1kv/us)	Insulation Resistance	Electrode Capacitance (1MHz,0.5V)	Impulse Discharge Current (8/20us,10 times)	AC Discharge Current (50Hz,1s,10 times)
	(V)	(V)	(GΩ)	(pF)	(KA)	(A)
ES3DS090N	090±30%	≤900	≥1	≤1	0.5	1
ES3DS0150N	150±30%	≤1100	≥1	≤1	0.5	1
ES3DS200N	200±30%	≤1100	≥1	≤1	0.5	1
ES3DS300N	300±30%	≤1200	≥1	≤1	0.5	1
ES3DS400N	400±30%	≤1300	≥1	≤1	0.5	1
ES3DS500N	500±30%	≤1300	≥1	≤1	0.5	1

Notes:

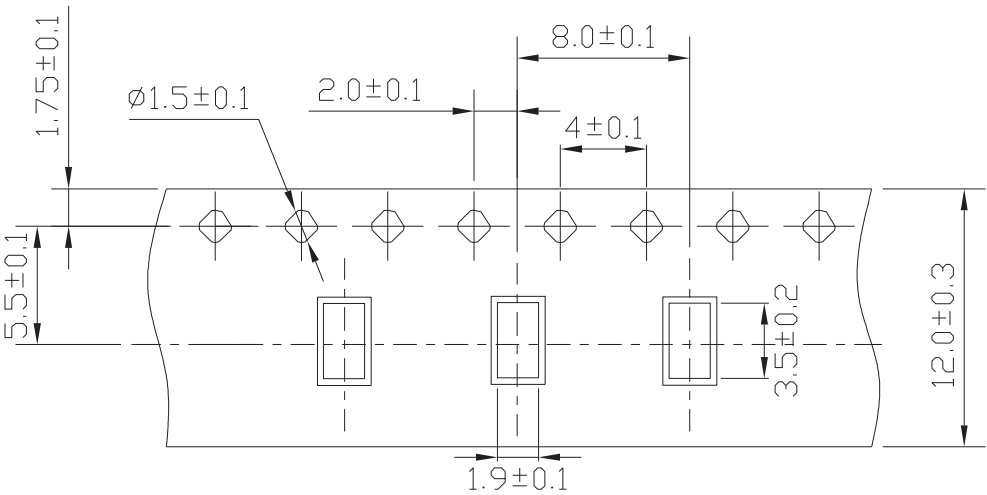
- 1、 Reference executive standard :TU-T K:12,GB/T9043-2008 《General Technical Requirements of Gas Discharge Tubes for the Over-voltage protection of telecommunications installations》
- 2、 The maximum AC withstand current(50Hz) is 1A and AC voltage shall be larger than the upper limit value of DC spark-over voltage during the test
- 3、 The electrode capacitance test frequency is 1MHz and test voltage is 0.5V
- 4、 Operating and Storage temperature:-40℃~+85℃

7. Dimension



Dimensions in mm.

Package reel information



Tape Specifications

Dimensions in mm

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