

90V Ceramic Gas Discharge Tubes

1. Features

- FeatureNon-Radioactive
- ROHS Compliant
- LOW Capacitance
- Extremely small size
- SMD Device
- High insulation resistance
- Fast response-time

2. Applications

- PON protection
- PCI Cards protection
- Telephone/Fax/modem protection
- Date/Single line protection
- Consumer electronic
- XDSL Splitter
- Electrostatic charge elimination

3. Product characteristics

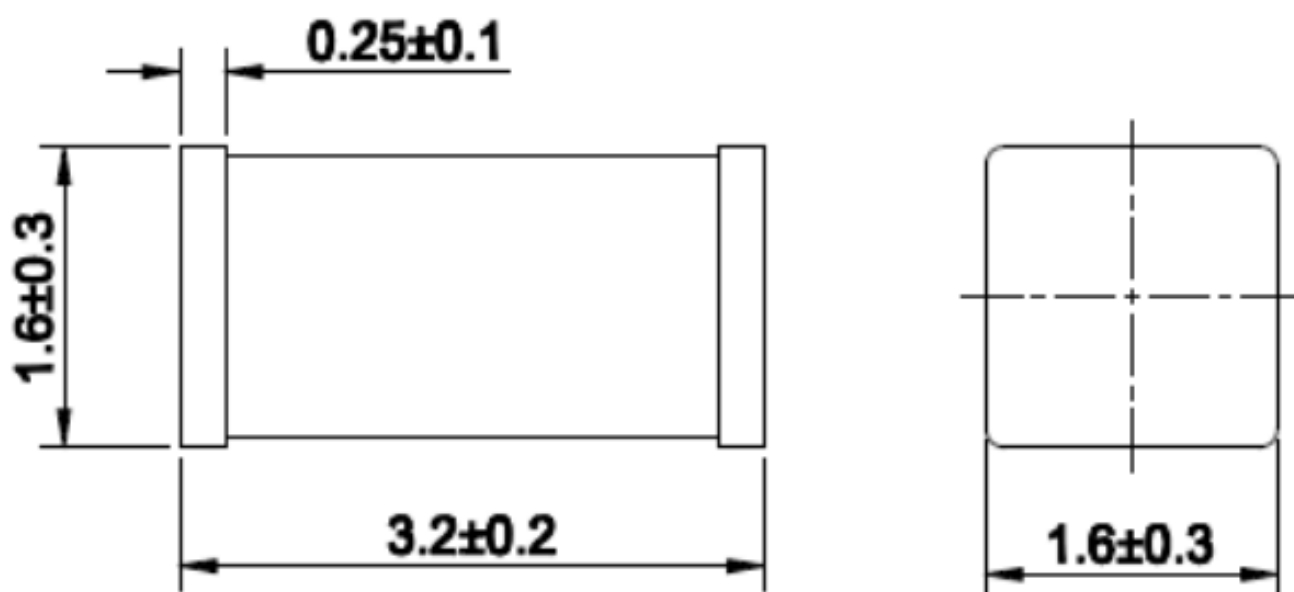
Part Number	Physical dimensions	Packing	Quantity per reel	Reel Size
SMB90XM(ES)	3.2mm*1.6mm*1.6mm	Tape	2500PCS	7 inches

Table-1 Ordering information

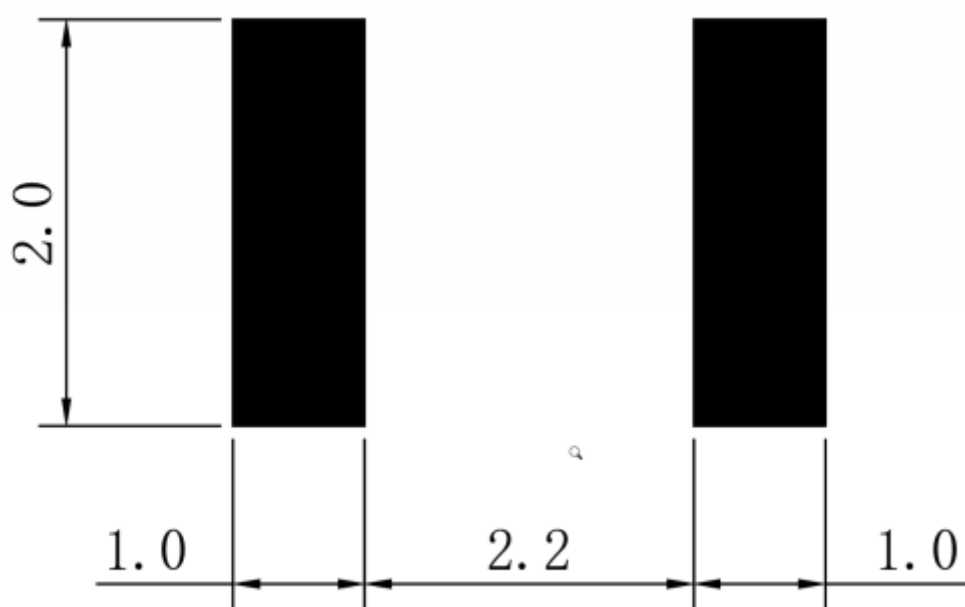
4. Electrical Characteristics

Part number	DC spark-over Voltage	Impulse spark-over Voltage	Nominal Impulse Discharge current		Electrode Capacitance	Insulation resistance	DC Holdover voltage
	100V/s	1 KV/ μ s	8/20 μ s	10/700 μ s	1MHz		
SMB90XM(ES)	90V $\pm$ 30%	<700V	0.5KA	1.0KV	<0.5pF	>100M Ω	50V

5. Mechanical Dimension(unit:mm)



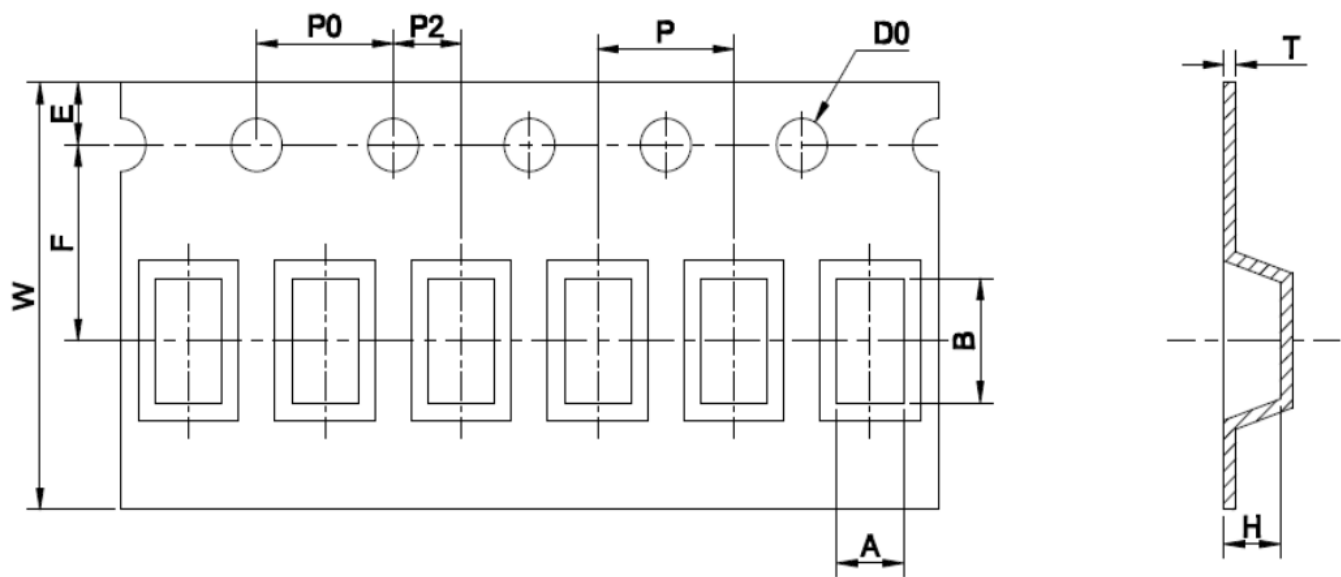
6. Recommended Land Pattern(unit:mm)



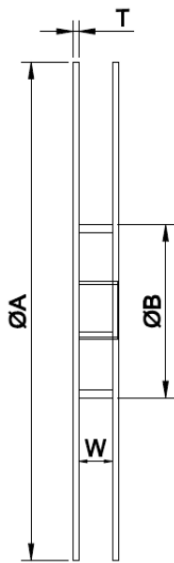
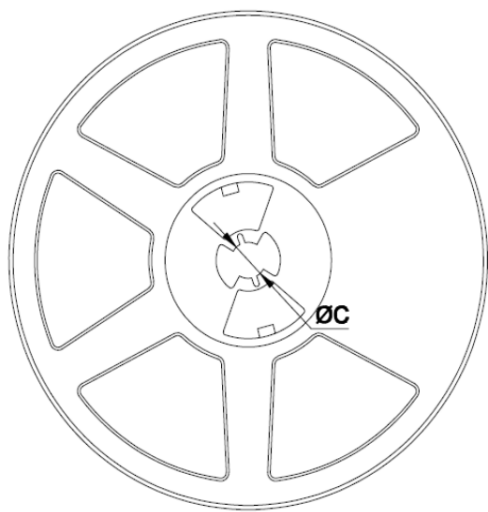
SMB90XM(ES)

Rev-1.2

7. Packaging(unit:mm)



A	B	W	E	F	P0	P ₂
1.95±0.2	3.5±0.2	12±0.3	1.75±0.1	5.5±0.05	4.0±0.1	2.0±0.05
P	D ₀	T	H			
4.0±0.1	Φ1.5 ^{+0.1} ₋₀	0.35±0.05	1.65±0.2			



A	Φ178±1
B	Φ62±2
C	Φ13+0.5/-0.2
W	Φ12.5±0.5
T	2.2±0.30

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