

3RL090M-5S

Gas Discharge Tube

Features

- Provide ultra-fast response to surge voltage from slow-rising surge of 100V/s to rapid-rising surge of 1KV/µs
- Stable breakdown voltage
- High insulation resistance
- Low capacitance (≤1.5pF)
- High holdover voltage
- Large absorbing transient current capability
- Micro-Gap Design
- ♦ Storage and operational temperature: -40°C ~ +125°C
- Meets MSL level 1, per J-STD-020

Part Number Coding System



Applications

- Repeaters, Modems.
- Telephone Interface, Line cards.
- Data communication equipment.
- Line test equipment
- Communication: RS485 etc.





Dimensions



Electrical Characteristics (T_A=25 $^{\circ}$ C unless otherwise noted)

Part Number	DC Spark-over Voltage(V)	Maximum Impulse Spark- over Voltage(V)	Nominal Impulse Discharge Current (KA)	Alternating Discharge Current(A)	Minimum Insulation Resistance		Maximum Capacitance (PF)
	100V/s	1000V/µs	8/20µs ±5times	50Hz,1sec	Test Voltage	MΩ	1MHz
3RL090M-5S	90±20%	600	5	5.0	50	1000	1.5

Items	Test Condition/Description	Requirement
DC Spark-over Voltage	The voltage is measured with voltage ramp dv/dt=100V/s.	To meet specified value
Maximum Impulse Spark-over Voltage	The maximum impulse spark-over voltage is measured with voltage ramp dv/dt=1000V/ μ s.	
Impulse Discharge Current	Maximum surge current that can be applied through center electrode with 8/20 µ s waveform, for 10 times with 3min interval time, which will be equally divided between each side electrode to center electrode, without causing the DC breakdown voltage to change more than 25% from its initial measured value.	
Alternating Discharge Current	Rated RMS value of AC current at 50Hz, 1 sec. for 10 times with interval time 3 min.	
Insulation Resistance	The resistance of gas tube shall be measured between two electrodes.	
Capacitance	The capacitance of gas tube shall be measured between two electrodes. Test frequency: 1MHz	

Reflow Soldering Parameters

