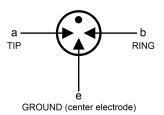
#### **Features**

- Stable breakdown voltage
- High insulation resistance
- High current rating
- Low capacitance (≤1.5pF)
- Stable performance over life
- Large absorbing transient current capability
- Fast response time
- RoHS compliant
- Standard Size: 5.0mm\*7.6mm
- Meets MSL level 1, per J-STD-020
- Storage and operating temperature: -40 °C ~ +90 °C

#### **GDT Graphical Symbol**

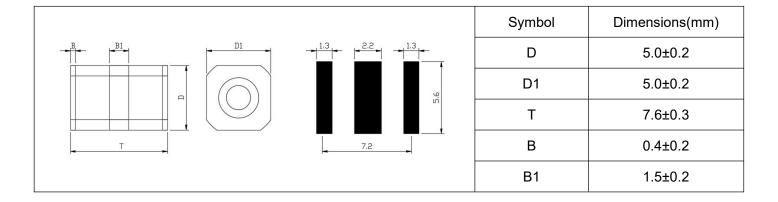


## **Applications**

- Repeaters, Modems
- Subscriber protection
- Telephone Interface, Line cards
- Data communication equipment
- Line test equipment

- Branch exchange
- Subscriber protection
- Alarm system
- Tuner
- Antenna protection

### **Dimensions**



## Electrical Characteristics (T<sub>A</sub>=25℃)

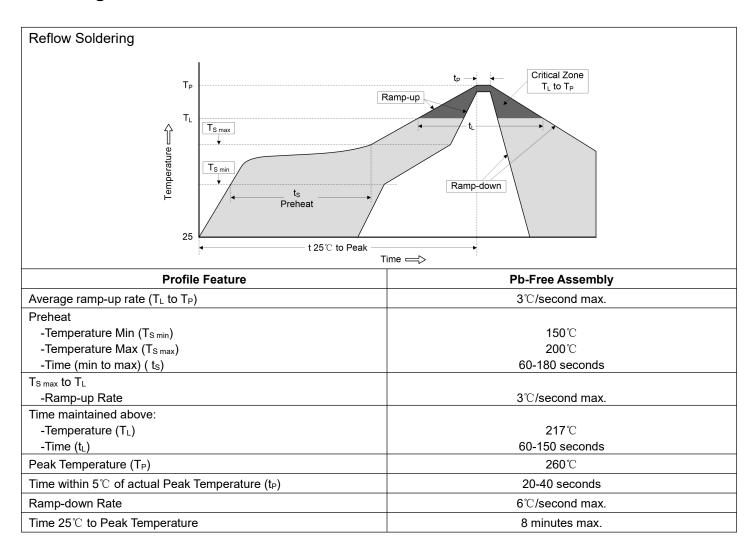
	Part Number	DC Spark-over Voltage	Maximum Impulse Spark-over Voltage	Nominal Impulse Discharge Current*	Alternating Discharge Current*	Minimum Insulation Resistance		Maximum Capacitance
		100V/s	1000V/µs	8/20µs, 10 times	50Hz,1sec	Test Voltage	GΩ	1MHz
ŀ	K3RM090M-5S	90V±20%	600V	10KA	10A	50VDC	1	1.5pF

<sup>\*</sup>TIP+RING→GROUND

### **Test Methods and Results**

Items	Test Method	Standard
DC Spark-over Voltage	measured with voltage ramp dv/dt=100V/s.	To meet the specified value
Maximum Impulse Spark-over Voltage	measured with voltage ramp dv/dt=1000V/µs.	
Impulse Discharge Current	applied through center electrode with 8/20µs 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. DC spark-over voltage shall not change more than ±25% from its initial value. Test is between each side electrode and center electrode.	
Insulation Resistance	measured between each side electrodes and center electrode.	
Capacitance	measured between each side electrodes and center electrode. Test frequency: 1MHz	

### **Soldering Parameters**





# **Packaging Specification**

