

## Gas Discharge Tube B8M Series

#### Features

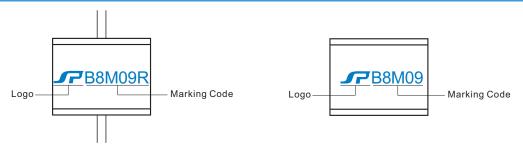
- Electronic stability
- Small volume, easy to placement machine operation
- Large flow capacity, impact resistant ability
- Static electricity capacity, good insulation
- Reaction speed is 50 ns 150 ns



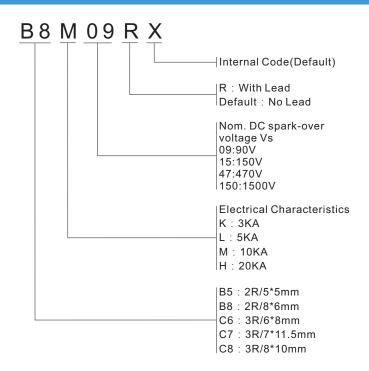
#### **Applications**

- ADSL MODEM、FAX、TELEPHONE
- RS485、RS232、CAN level of protection
- CATV
- Power supply prevents thunder common-mode protection

#### Marking Code

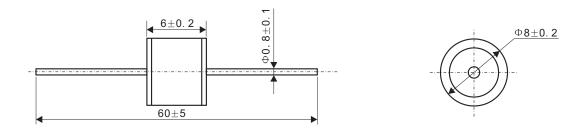


### **Product Name**





### **Dimensions**



Dimensions in millimeters

### **Electrical Characteristics**

Part Number		Spark-over S Voltage	Impulse Spark-over Voltage (@1KV/µs)	Nom.Impulse Discharge Current	Nom. Alternating Discharge Current	Insulation Resistance		Capacitance (pF)
With Wire	Without Wire	(@100V/s) (V)	(W1KV/μs) (V)	(@8/20µs) (KA)	(@50HZ) (A)	(GΩ)	(@DC) (V)	** /
B8M07R	B8M07	75±20%	≦600	10	10	>1	25	<1
B8M09R	B8M09	90±20%	≦600	10	10	>1	50	<1
B8M15R	B8M15	150±20%	≦650	10	10	>1	50	<1
B8M23R	B8M23	230±20%	≦650	10	10	>1	100	<1
B8M35R	B8M35	350±20%	≦700	10	10	>1	100	<1
B8M47R	B8M47	470±20%	≦750	10	10	>1	250	<1
B8M60R	B8M60	600±20%	≦950	10	10	>1	250	<1

## Packaging Speci Cations

Packaging:100 pieces bulk

### **Initial Characteristics**

Test Item	Test Method	Specification	
DC-Spark-Over Voltage Vs	Add and measure the DC Voltage gradually Maxto get the discharge threshold voltage. The measuring current is 1mA/1 second max.(1sec).(1mA)	It depands on each spec.	
Insulation Resistance	Measure the insulation resistance of two end of leadwire under the specified DC voltage.	100MΩ min.	
Capacitance C(pF)	Electrostatic Capacitance under the test condition of 1KHz,DC 6V(max).	0.8pF max.	

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# **Surge Characteristics**

Test Item	Test Method	Specification	
Surge withstand capability	In the glass tube ends in 8/20 us surge tester, applying the model that corresponds to the impact resistance current, time interval for the 60 s of plus or minus the test 5 times. Test the dc voltage, insulation resistance, static capacitance and check the appearance.	DC spark-over voltage JSE: △Vs/Vs≦30%	
Surge life test	Apply 10KV voltage charged in 1500pF condenser and apply the current to the specimen,200 times at 10 seconds of intervals.	Within standard mentioned in Initial Characteristics.	

## **Environmental Characteristics**

Test Item	Test Method	Specification
Cold resistance	After -40±3°C (1000hrs) / room temp.,normal humidity(4 hrs) cycle, measure the properties.	Within standard mentioned in Initial Characteristics.
Heat resistance	After 125±2℃  Heat resistance (1000hrs) / room temp.,normal humidity(4 hrs) cycle, measure the properties.	
Temperature resistance	After 85±2℃ erature resistance RH85%(1000hrs) / room temp.,normal humidity(4 hrs) cycle, measure the properties.	
25 times repetition of cycle -40±3℃ Temperature period (30 Min.), roon temp., (4 Min.), 125±2℃ (30 Min.), room temp., normal humidity(4hrs).		Within standard mentioned in Initial Characteristics.
Tensile strength	Tensile strength  Apply 2.5kgs load approximately 30 seconds, then check for pull-out and breaking of the lead wire.	
Bending strength	Bend the lead wire, with jig which radius is 0.75~0.8mm, at the point of 2mm from the body, under 0.25 kgs load applied at the right angle the direction of theamis and get the bent lead wire back to its original poing after the procedure was repeated 2times.	Within standard mentioned in Initial Characteristics.
Resistance to soldering attachment (by solder dip)  Apply flux and immerse in molten solder, up to the point of 3mm from the body, for 5 sec. (235 ±5 ). Wash the leadwire and check for soldering adhesion.		Lead wire is evenly covered by solder over 90%.
Resistance to soldering heat (by solder dip)	Apply flux and immerse in molten solder, up to the point of 3mm from the body,for 5 sec. (235℃±5℃). Wash the leadwire and check forsoldering adhesion.)	Within standard mentioned in Initial Characteristics.

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