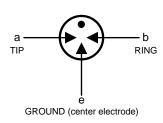


Datasheet

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: 8.0mm*10.0mm
- Meets MSL level 1, per J-STD-020
- Storage and operating temperature: -40°C ~ +90°C



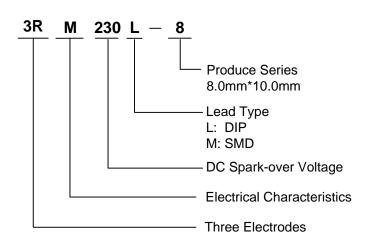
GDT Graphical Symbol

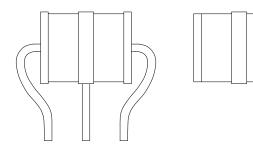
Applications

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

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

Part Number Code and Marking

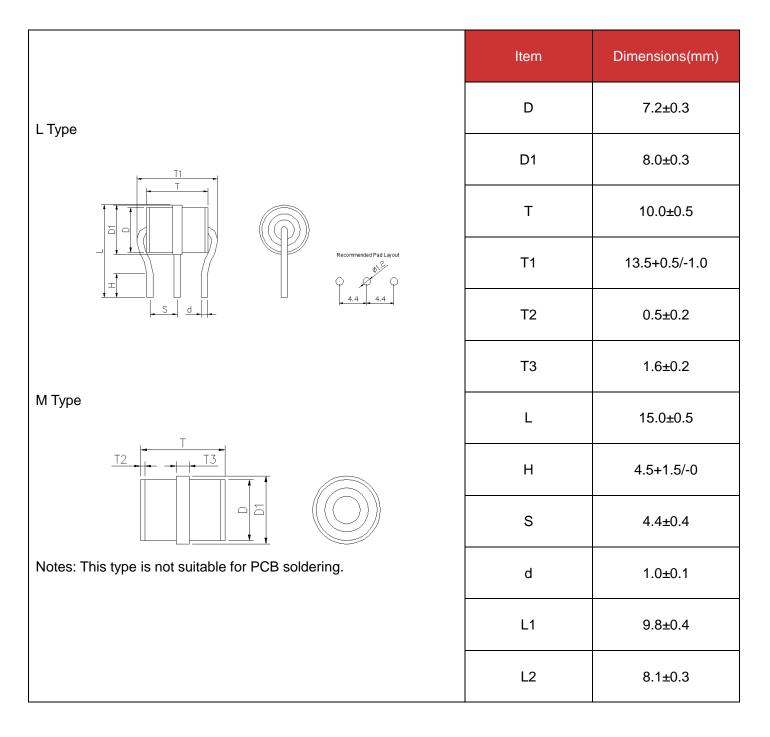






Gas Discharge Tube

Dimensions





Gas Discharge Tube

Datasheet

Electrical Characteristics (T_A=25℃)

Part Number		DC Spark-over Voltage	Maximum Impulse Spark-over Voltage	Nominal Impulse Discharge Current	Alternating Discharge Current	Impulse Life	Minimum Insulation Resistance		Maximum Capacitance	
		100V/s	1000V/µs	8/20µs, 10 times	50Hz,1sec	10/1000µs, 100A	Test Voltage	GΩ	1MHz	
3RM075L-8	3RM075M-8		75V±20%	700V	10KA	10A	300 times	25VDC	1	1.5pF
3RM090L-8	3RM090M-8		90V±20%	700V	10KA	10A	300 times	50VDC	1	1.5pF
3RM150L-8	3RM150M-8		150V±20%	700V	10KA	10A	300 times	100VDC	1	1.5pF
3RM230L-8	3RM230M-8		230V±20%	700V	10KA	10A	300 times	100VDC	1	1.5pF
3RM250L-8	3RM250M-8		250V±20%	700V	10KA	10A	300 times	100VDC	1	1.5pF
3RM300L-8	3RM300M-8		300V±20%	800V	10KA	10A	300 times	100VDC	1	1.5pF
3RM350L-8	3RM350M-8		350V±20%	850V	10KA	10A	300 times	100VDC	1	1.5pF
3RM400L-8	3RM400M-8		400V±20%	900V	10KA	10A	300 times	250VDC	1	1.5pF
3RM470L-8	3RM470M-8		470V±20%	900V	10KA	10A	300 times	250VDC	1	1.5pF
3RM600L-8	3RM600M-8		600V±20%	1200V	10KA	10A	300 times	250VDC	1	1.5pF



3RMxxxL-8/3RMxxxM-8 Series

Gas Discharge Tube

Test Methods and Results

Items	Test Method	Standard		
DC Spark-over Voltage	measured with voltage ramp dv/dt=100V/s.			
Maximum Impulse Spark-over Voltage	measured with voltage ramp dv/dt=1000V/µs.			
Impulse Discharge Current				
Alternating Discharge Current				
Insulation Resistance	measured between each side electrodes and center electrode.			
Capacitance	measured between each side electrodes and center electrode. Test frequency: 1MHz			

Soldering Parameters

Wave So	oldering	Reflow Soldering			
300 280 260 200 200 200 200 200 200 200 200 20		T _p T _L T _{S(max)} T _{S(min)} Z5 time to peak temperature (t 25°C to peak)	to to Critical Zone T _L to T _P		
		Profile Feature	Pb-Free Assembly		
0 ♀ ≈ ≈ ♀ ♀ ∞ ∞ ≈ ∞ ♀ ≞ Time(Seconds)	120 130 150 150 150 150 150 150 120 230 230 230 230 230 230 230 230 230 2	Average ramp-up rate (T _L to T _P)	3°C/second max.		
Preheat Time	Cooling Time	Preheat			
I	Dwell Time	-Temperature Min (Ts min)	150°C		
		-Temperature Max (Ts max)	200°C		
		-Time (min to max) (ts)	60-180 seconds		
		T _{S max} to T _L			
		-Ramp-up Rate	3°C/second max.		
		Time maintained above:			
		-Temperature (T∟)	217°C		
		-Time (t∟)	60-150 seconds		
Item	Conditions	Peak Temperature (T _P)	260℃		
Peak Temperature	265 ℃	Time within 5°C of actual Peak Temperature (t_P)	20-40 seconds		
Dipping Time	10 seconds	Ramp-down Rate	6°C/second max.		
Soldering	1 time	Time 25°C to Peak Temperature	8 minutes max.		