

# DATA SHEET

## GAS DISCHARGE TUBE – 2R-8\*6 SERIES

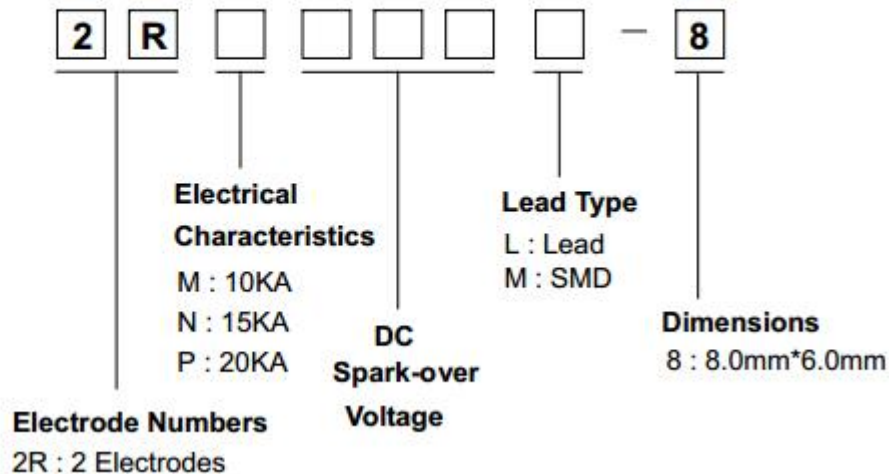
### FEATURES

- ◇ Provide ultra-fast response to surge voltage from slow-rising surge of 100V/s to rapid-rising surge of 1KV/ $\mu$ s.
- ◇ Stable breakdown voltage.
- ◇ High insulation resistance.
- ◇ Low capacitance ( $\leq 1.5$ pF).
- ◇ High holdover voltage.
- ◇ Large absorbing transient current capability.
- ◇ Micro-Gap Design
- ◇ Size : 8\*6mm
- ◇ Storage and operational temperature: -40°C ~ +85°C
- ◇ Meets MSL level 1, per J -STD-020

### APPLICATION

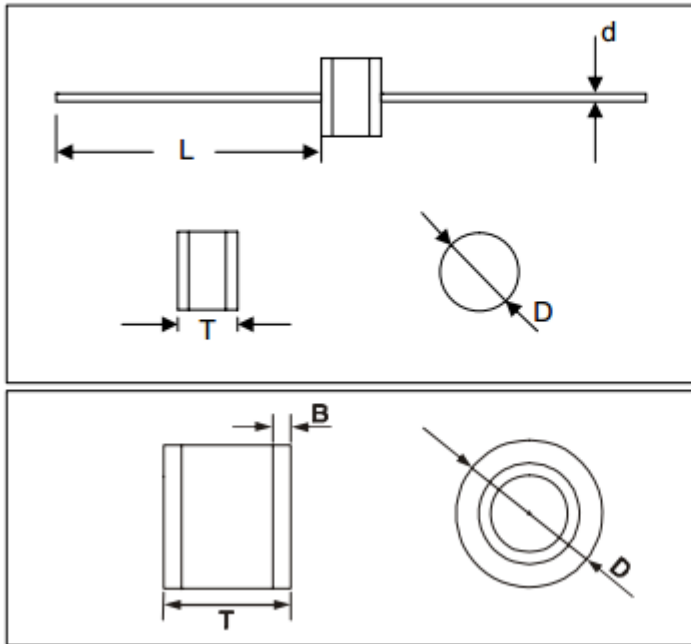
- ◇ Repeaters, Modems.
- ◇ Telephone Interface, Line cards.
- ◇ Data communication equipment.
- ◇ Line test equipment.

### PART NUMBER CODE



## DIMENSIONS

unit :mm

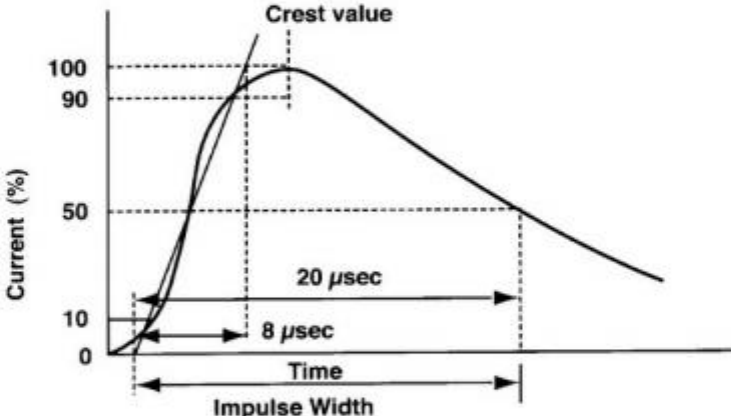


Items	Dimension	
	Spec.	Tolerance
D	8.0	+0.3,-0.5
T	6.0	+0.3,-0.5
d	0.8	±0.05
L	30.0	Max.
D	8.0	+0.3,-0.5
T	6.0	+0.3,-0.5
B	1.1	±0.4

## ELECTRICAL CHARACTERISTIC

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, 10times	50Hz, 1sec	10/1000μs, 100A	Test Voltage	(GΩ)	1MHz
		(V)	(V)	(KA)	(A)	(times)	DC(V)		(pF)
2RM075L-8	2RM075M-8	75±20%	600	10	10	500	25	1.0	1.5
2RM090L-8	2RM090M-8	90±20%	600	10	10	500	50	1.0	1.5
2RM145L-8	2RM145M-8	145±20%	700	10	10	500	100	1.0	1.5
2RM150L-8	2RM150M-8	150±20%	700	10	10	500	100	1.0	1.5
2RM230L-8	2RM230M-8	230±20%	700	10	10	500	100	1.0	1.5
2RM250L-8	2RM250M-8	250±20%	800	10	10	500	100	1.0	1.5
2RM300L-8	2RM300M-8	300±20%	900	10	10	500	100	1.0	1.5
2RM350L-8	2RM350M-8	350±20%	900	10	10	500	100	1.0	1.5
2RM400L-8	2RM400M-8	400±20%	1000	10	10	500	100	1.0	1.5
2RM470L-8	2RM470M-8	470±20%	1100	10	10	500	250	1.0	1.5
2RM600L-8	2RM600M-8	600±20%	1300	10	10	500	250	1.0	1.5
2RM800L-8	2RM800M-8	800±20%	1500	10	10	500	250	1.0	1.5

## ELECTRICAL RATING

Item	Test Condition / Description	Requirement
DC Spark-over Voltage	The voltage is measured with a low rate of rise $dv / dt=100V/s$	
Maximum Impulse Spark-over Voltage	The maximum impulse breakdown voltage is measured with a rise time of $dv / dt=1000V/\mu s$	
Impulse Discharge Current	<p>The maximum current applying a waveform of 8/20<math>\mu s</math> that can be applied across the terminals of the gas tube without causing the gas tube to change more than <math>\pm 25\%</math> from its initial measured DC breakdown voltage. Dwell time between pulses is 3 minutes.</p>  <p>The graph shows a current waveform starting at 0% at time 0. It rises to a peak labeled 'Crest value' at 100% at a time of 8 <math>\mu s</math>. The current then decays, reaching 50% at a time of 20 <math>\mu s</math>. The time interval from 10% to 50% is labeled 'Impulse Width'. The y-axis is labeled 'Current (%)' with values 0, 10, 50, 90, 100. The x-axis is labeled 'Time'.</p>	To meet the specified value
Alternating Discharge Current	<p>Rated RMS value of AC current at 50Hz, 1 sec. 10 times. Intervals: 3min. DC breakdown voltage may not change more than <math>\pm 25\%</math> from its initial measured DC breakdown voltage. <math>IR &gt; 10^8</math> ohms (-20%, +30% for 70 – 90V).</p>	
Insulation Resistance	The resistance of gas tube shall be measured each terminal each other terminal. please see above spec	
Capacitance	<p>The capacitance of gas tube shall be measured each terminal to each other terminal. Test frequency :1MHz</p>	