DATA SHEET

GAS DISCHARGE TUBE – 3R-5-S SERIES

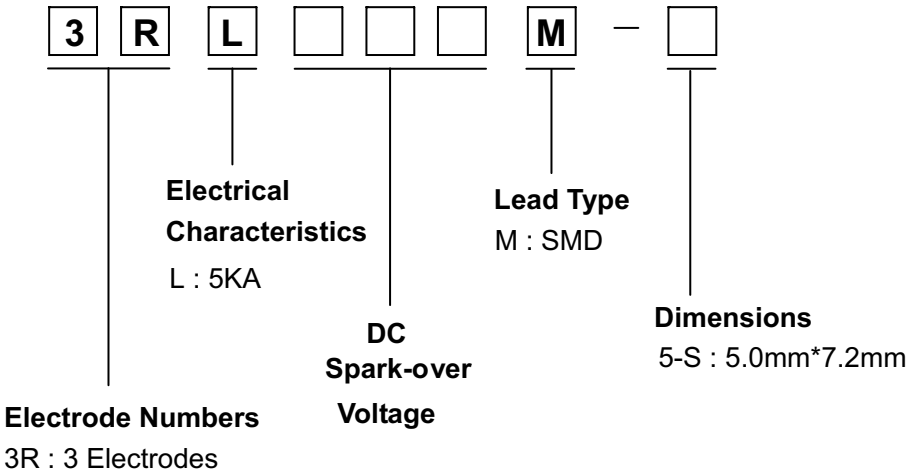
FEATURES

- ✧ 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 (≤2pF).
- ✧ High holdover voltage.
- ✧ Large absorbing transient current capability.
- ✧ Micro-Gap Design
- ✧ SIZE: 5.0*7.2mm
- ✧ Storage and operational temperature: -40℃ ~ +85℃
- ✧ Meets MSL level 1, per J -STD-020

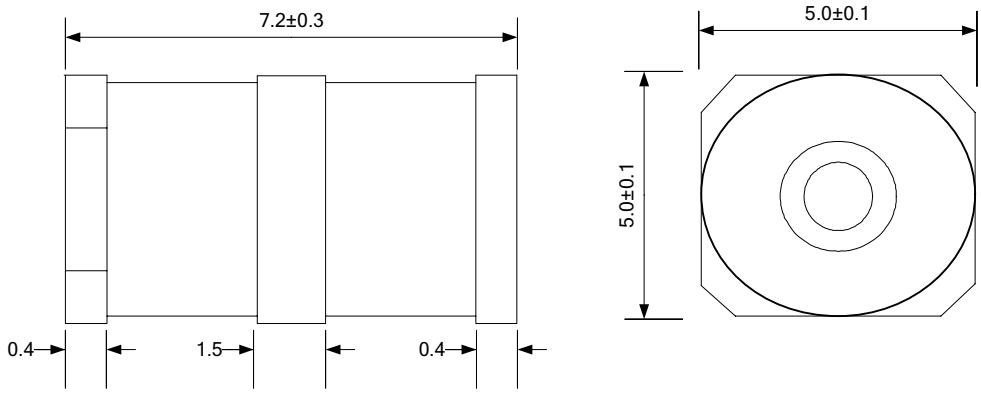
APPLICATION

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

PART NUMBER CODE



DIMENSIONS



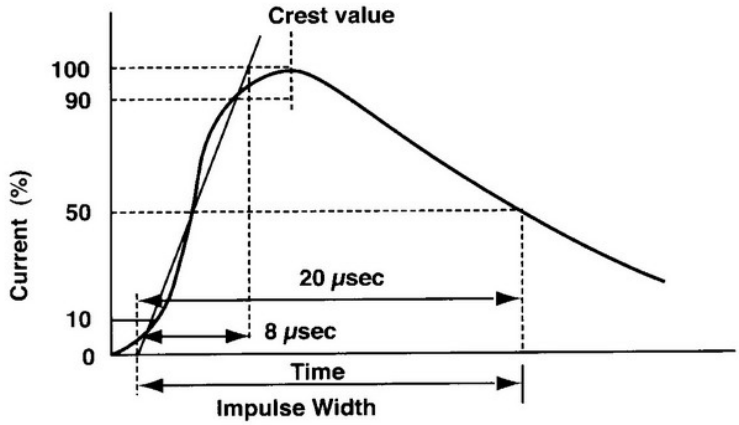
S TYPE

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	Device Marking Code
	100V/s	1000V/μs	8/20μs, 10times	50Hz,1sec	10/1000μs, 200A	Test Voltage	(GΩ)	1MHz	
	(V)	(V)	(KA)	(A)	(times)	DC(V)		(pF)	
3RL075M-5-S	75±20%	700				25			3SL075M
3RL090M-5-S	90±20%	600				50			3SL090M
3RL120M-5-S	120±20%	600				50			3SL120M
3RL150M-5-S	150±20%	600				100			3SL150M
3RL200M-5-S	200±20%	600				100			3SL200M
3RL230M-5-S	230±20%	650				100			3SL230M
3RL250M-5-S	250±20%	650	5	5	300	100	1.0	2.0	3SL250M
3RL300M-5-S	300±20%	800				100			3SL300M
3RL350M-5-S	350±20%	800				100			3SL350M
3RL400M-5-S	400±20%	900				100			3SL400M
3RL420M-5-S	420±20%	900				250			3SL420M
3RL470M-5-S	470±20%	900				250			3SL470M
3RL600M-5-S	600±20%	1000				250			3SL600M

Note: Impulse discharge current for GDT is the total current equally divided between each line to ground

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	To meet the specified value
Maximum Impulse Spark-over Voltage	The maximum impulse breakdown voltage is measured with a rise time of dv / dt=1000V/μs	
Impulse Discharge Current	The maximum current applying a waveform of 8/20μs that can be applied across the terminals of the gas tube without causing the gas tube to change more than ±25% from its initial measured DC breakdown voltage. Dwell time between pulses is 3 minutes. 	
Alternating Discharge Current	Rated RMS value of AC current at 50Hz, 1 sec. 10 times. Intervals: 3min. DC breakdown voltage may not change more than ±25% from its initial measured DC breakdown voltage. IR > 10^8 ohms (-20%, +30% for 70 – 90V).	
Insulation Resistance	The resistance of gas tube shall be measured each terminal each other terminal.please see above spec	
Capacitance	The capacitance of gas tube shall be measured each terminal to each other terminal. Test frequency :1MHz	