GDT > 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

3	R	L	□	□	□	M	–	□

Electrode Numbers
3R : 3 Electrodes

Electrical Characteristics
L : 5KA

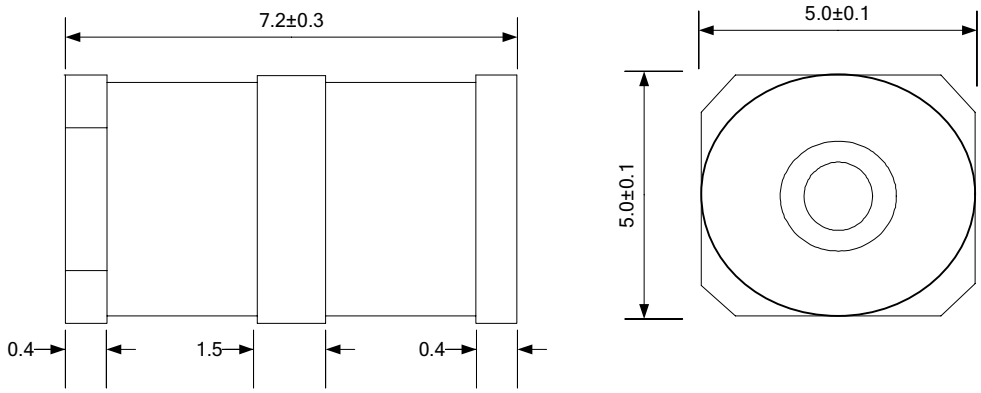
DC Spark-over Voltage

Lead Type
M : SMD

Dimensions
5-S : 5.0mm*7.2mm

GDT > 3R - 5 - S series

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
	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	5	5	300	25	1.0	2.0
3RL090M-5-S	90±20%	600				50		
3RL120M-5-S	120±20%	600				50		
3RL150M-5-S	150±20%	600				100		
3RL200M-5-S	200±20%	600				100		
3RL230M-5-S	230±20%	650				100		
3RL250M-5-S	250±20%	650				100		
3RL300M-5-S	300±20%	800				100		
3RL350M-5-S	350±20%	800				100		
3RL400M-5-S	400±20%	900				100		
3RL420M-5-S	420±20%	900				250		
3RL470M-5-S	470±20%	900				250		
3RL600M-5-S	600±20%	1000				250		

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

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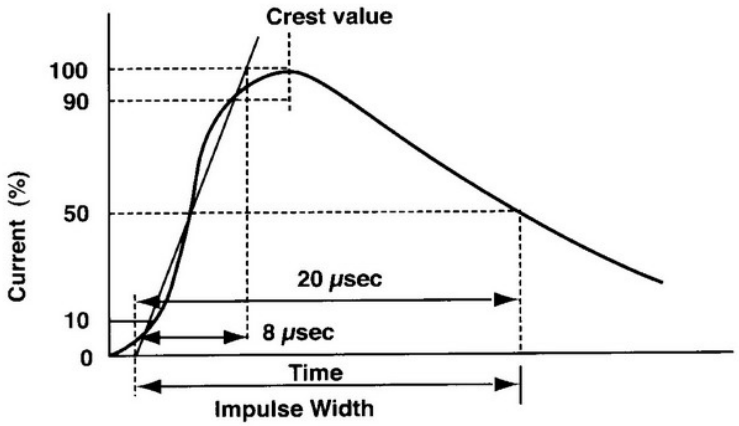
Electrical Rating

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	