GDT > 2R-8*6/S series

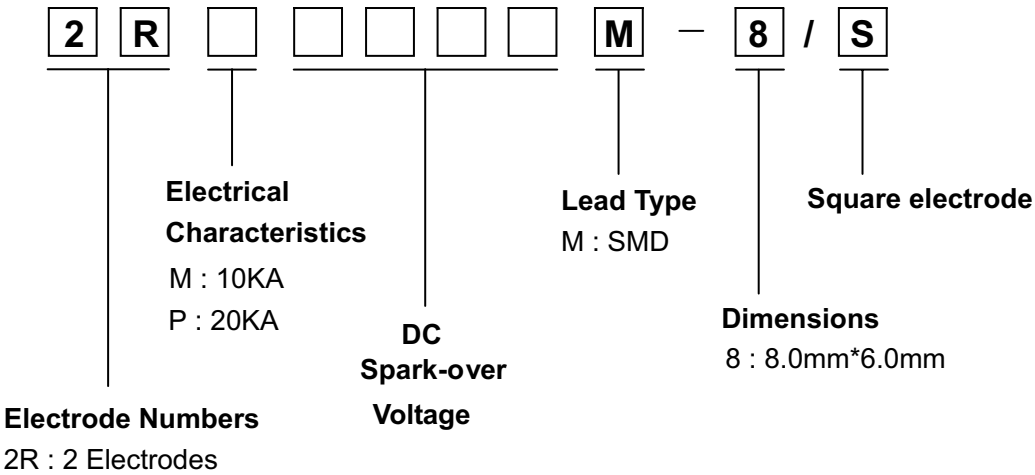
Features

- ✧ 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 (≤1.5pF).
- ✧ Large absorbing transient current capability
- ✧ Micro-Gap Design
- ✧ ROHS Compliant
- ✧ SIZE : 8*6mm
- ✧ Surface mount for economical assembly
- ✧ Weight ~1.5g
- ✧ 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
- ✧ Automotive、aircraft military、electronics

Part Number Code



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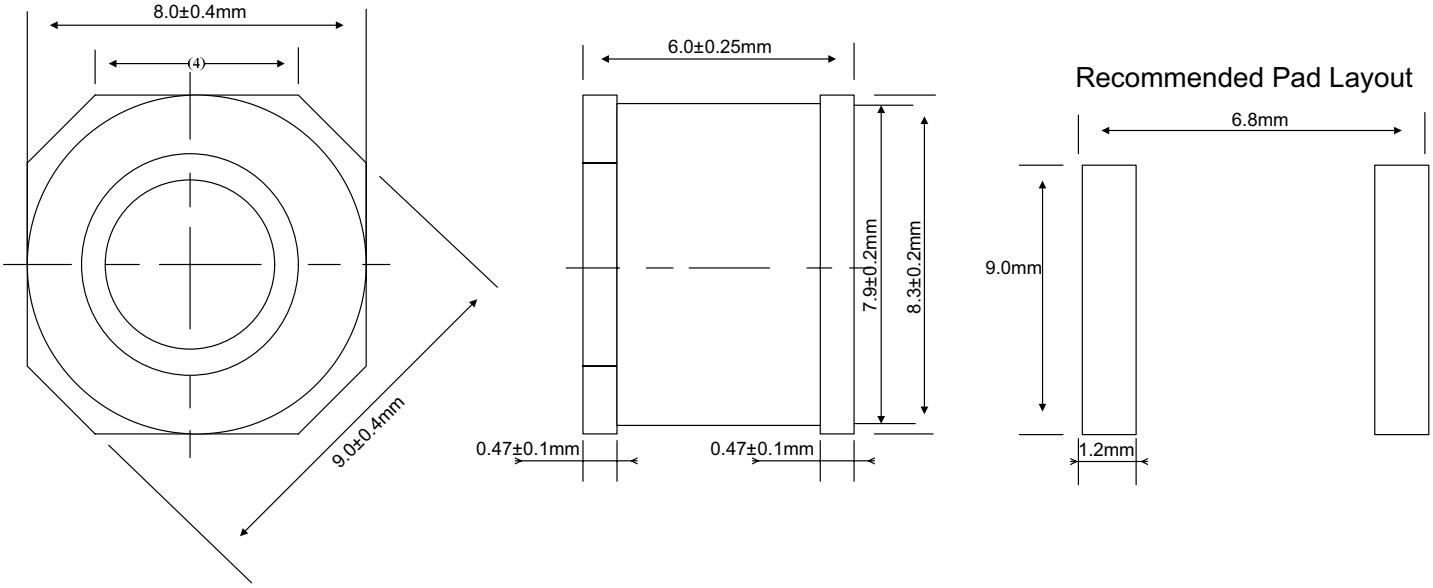
Dimensions



Electrical Characteristic

Part Number	DC Spark-over Voltage	Maximum Impulse Spark-over Voltage	Nominal Impulse Discharge Current	Single Impulse Discharge Current	Altemating Discharge Current	Impulse Life	Minimum Insulation Resistance		Maximum Capacitance
	100V/s	1000V/μs	8/20μs 10times	10/350μs	50Hz,1sec	10/1000μs 100A	Test Voltage	(GΩ)	1MHz
	(V)	(V)	(KA)	(KA)	(A)	(times)	DC(V)		(pF)
2RM075M-8/S	75±20%	600	10	2.5	10	500	25	1.0	1.5
2RM090M-8/S	90±20%	600	10	2.5	10	500	50	1.0	1.5
2RM150M-8/S	150±20%	600	10	2.5	10	500	100	1.0	1.5
2RM230M-8/S	230±20%	700	10	2.5	10	500	100	1.0	1.5
2RM250M-8/S	250±20%	700	10	2.5	10	500	100	1.0	1.5
2RM300M-8/S	300±20%	900	10	2.5	10	500	100	1.0	1.5
2RM350M-8/S	350±20%	900	10	2.5	10	500	100	1.0	1.5
2RM420M-8/S	420±20%	1000	10	2.5	10	500	100	1.0	1.5
2RM470M-8/S	470±20%	1000	10	2.5	10	500	250	1.0	1.5
2RM600M-8/S	600±20%	1200	10	2.5	10	500	250	1.0	1.5
2RM800M-8/S	800±20%	1400	10	2.5	10	500	250	1.0	1.5
2RM1000M-8/S	1000±20%	1700	10	2.5	10	500	250	1.0	1.5
2RP075M-8/S	75±20%	600	20	5.0	20	500	25	1.0	1.5
2RP090M-8/S	90±20%	600	20	5.0	20	500	50	1.0	1.5
2RP150M-8/S	150±20%	600	20	5.0	20	500	100	1.0	1.5
2RP230M-8/S	230±20%	700	20	5.0	20	500	100	1.0	1.5
2RP250M-8/S	250±20%	700	20	5.0	20	500	100	1.0	1.5
2RP300M-8/S	300±20%	900	20	5.0	20	500	100	1.0	1.5
2RP350M-8/S	350±20%	900	20	5.0	20	500	100	1.0	1.5
2RP420M-8/S	420±20%	1000	20	5.0	20	500	100	1.0	1.5
2RP470M-8/S	470±20%	1000	20	5.0	20	500	250	1.0	1.5
2RP600M-8/S	600±20%	1200	20	5.0	20	500	250	1.0	1.5
2RP800M-8/S	800±20%	1400	20	5.0	20	500	250	1.0	1.5
2RP1000M-8/S	1000±20%	1700	20	5.0	20	500	250	1.0	1.5

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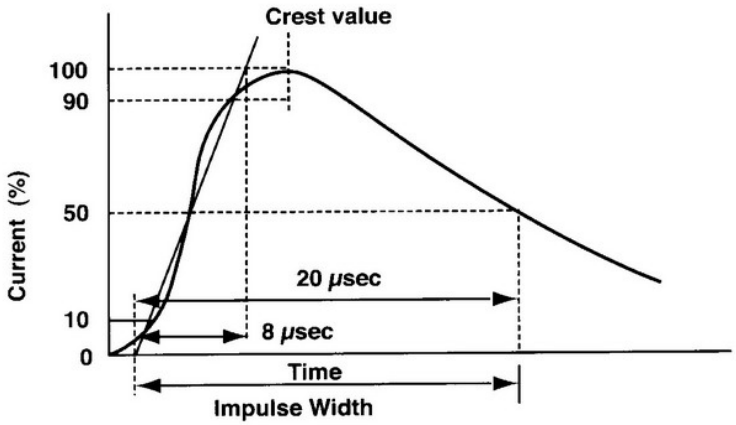
Electrical Rating

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	