

GDT > 2R - 6 series

Features

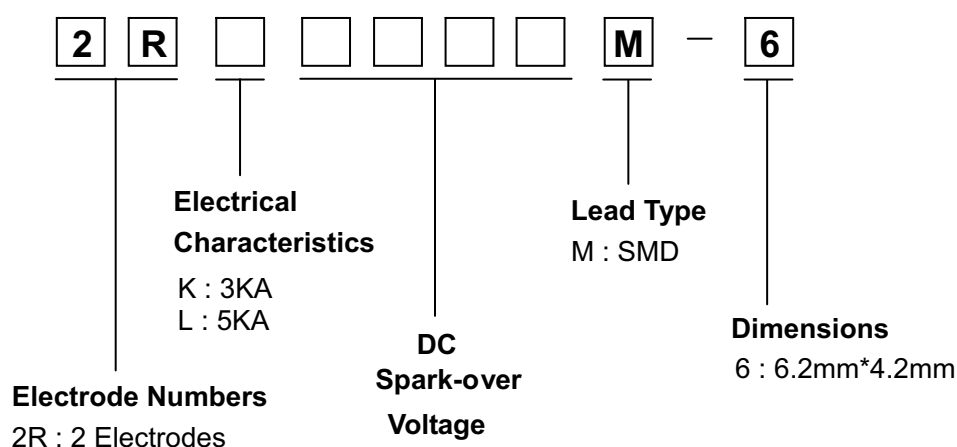
- ✧ Provide ultra-fast response to surge voltage from slow-rising surge of 100V/s to rapid-rising surge of 1KV/ μ s.
- ✧ Stable breakdown voltage.
- ✧ High insulation resistance.
- ✧ Low capacitance (≤ 1 pF).
- ✧ High holdover voltage.
- ✧ Large absorbing transient current capability.
- ✧ Micro-Gap Design
- ✧ Size: 6.2mm*4.2mm
- ✧ Storage and operational temperature: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
- ✧ Meets MSL level 1, per J-STD-020



Application

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

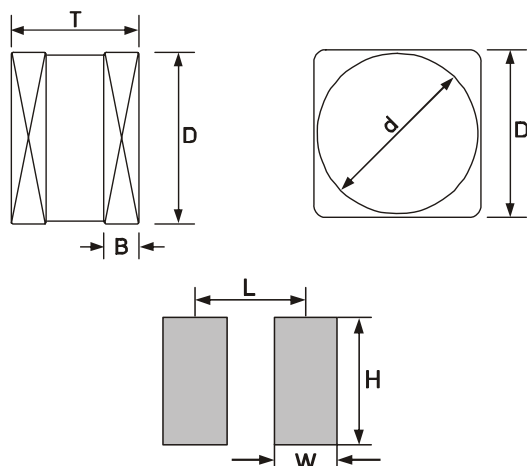
Part Number Code





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Dimensions



Recommended Pad Size

unit :mm

Items	Dimension	
	Spec.	Tolerance
D	6.2	±0.2
T	4.2	±0.2
B	0.8	±0.1
d	6.0	±0.2
L	3.5	-
H	7.0	-
W	1.3	-

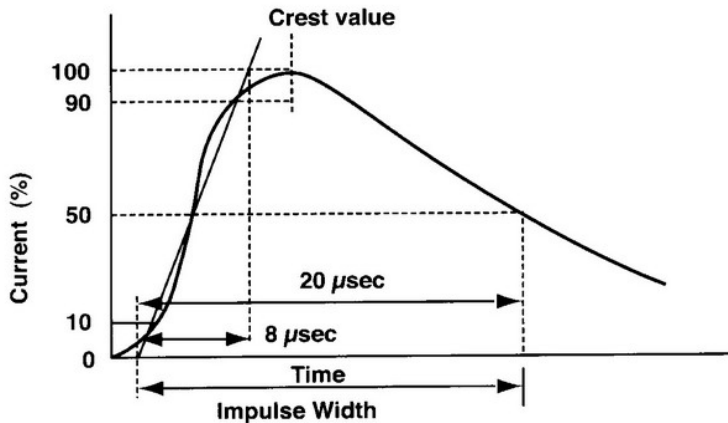
Electrical Characteristic

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)
2RL075M-6	75±20%	700	5	5	500	25	1	1.0
2RL090M-6	90±20%	700	5	5	500	50	1	1.0
2RL145M-6	145±20%	700	5	5	500	100	1	1.0
2RL150M-6	150±20%	700	5	5	500	100	1	1.0
2RL230M-6	230±20%	650	5	5	500	100	1	1.0
2RL250M-6	250±20%	650	5	5	500	100	1	1.0
2RL300M-6	300±20%	700	5	5	500	100	1	1.0
2RL350M-6	350±20%	750	5	5	500	100	1	1.0
2RL400M-6	400±20%	800	5	5	500	100	1	1.0
2RL470M-6	470±20%	900	5	5	500	250	1	1.0
2RL600M-6	600±20%	1000	5	5	500	250	1	1.0
2RL800M-6	800±20%	1200	5	5	500	250	1	1.0
2RK1000M-6	1000±20%	1600	3	3	300	500	1	1.0
2RK1200M-6	1200±20%	1800	3	3	300	500	1	1.0
2RK1800M-6	1800±20%	2600	3	3	300	500	1	1.0
2RK2000M-6	2000±20%	2800	3	3	300	500	1	1.0
2RK2500M-6	2500±20%	3200	3	3	300	1000	1	1.0
2RK2700M-6	2700±20%	3400	3	3	300	1000	1	1.0
2RK3000M-6	3000±20%	3700	3	3	300	1000	1	1.0



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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 $dv / dt = 1000V/\mu s$	
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 $\pm 25\%$ from its initial measured DC breakdown voltage. Dwell time between pulses is 3 minutes.  The graph shows a current waveform starting at 0, rising to a peak labeled 'Crest value' at 100%, and then decaying. The rise time is marked as 8 μs and the fall time is marked as 20 μs. The x-axis is labeled 'Time' and 'Impulse Width'. The y-axis is labeled 'Current (%)' with markers at 0, 10, 50, 90, and 100.	
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 $\pm 25\%$ 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	