

DATA SHEET

GAS DISCHARGE TUBES TELEPHONE INTERFACE 2R-5-SST4.2 series

RoHS compliant & free



Product specification- February 02, 2021 V.I

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GAS DISCHARGE TUBS

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Gas Discharge Tube (GDT) Data Sheet

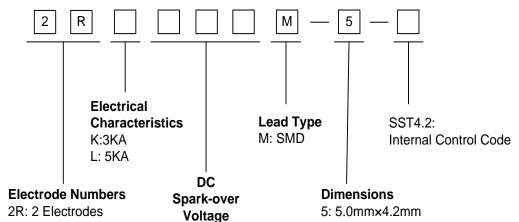
Features

- 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 (≤1pF)
- High holdover voltage
- Large absorbing transient current capability
- Micro-Gap Design
- Size: 5.0mm*4.2mm
- Square ceramic tube for SMD
- Storage and operating temperature: -40°C ~ +85°C
- Meets MSL level 1, per J-STD-020
- Safety certification: UL

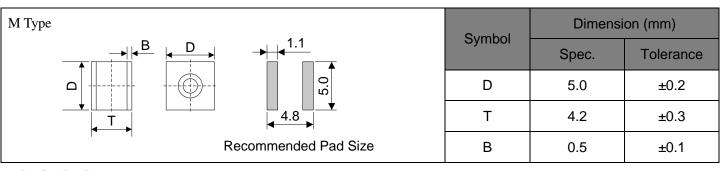
Applications

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

Part Number Code



Dimensions





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Electrical Characteristics

Part Number	Type ①	DC Spark-over Voltage	Maximum Impulse Spark-over Voltage	Nominal Impulse Discharge Current	Minimum Insulation Resistance		Maximum Capacitance	Device	
		100V/s	1000V/µs	8/20µs ±5times	Test Voltage	. (GΩ)	1MHz	Marking Code	
		(V)	(V)	(KA)	DC(V)		(pF)		
2RL075M-5	SST4.2	75±20%	700	5.0	25	1.0	1.0	None	
2RL090M-5	SST4.2	90±20%	650	5.0	50	1.0	1.0	None	
2RL120M-5	SST4.2	120±20%	700	5.0	50	1.0	1.0	None	
2RL150M-5	SST4.2	150±20%	700	5.0	100	1.0	1.0	None	
2RL230M-5	SST4.2	230±20%	700	5.0	100	1.0	1.0	None	
2RL250M-5	SST4.2	250±20%	700	5.0	100	1.0	1.0	None	
2RL300M-5	SST4.2	300±20%	800	5.0	100	1.0	1.0	None	
2RL350M-5	SST4.2	350±20%	850	5.0	100	1.0	1.0	None	
2RL400M-5	SST4.2	400±20%	900	5.0	100	1.0	1.0	None	
2RL470M-5	SST4.2	470±20%	1000	5.0	250	1.0	1.0	None	
2RL600M-5	SST4.2	600±20%	1200	5.0	250	1.0	1.0	None	
2RK800M-5	SST4.2	800±20%	1600	3.0	250	1.0	1.0	None	
2RK1000M-5	SST4.2	1000±20%	1800	3.0	500	1.0	1.0	None	

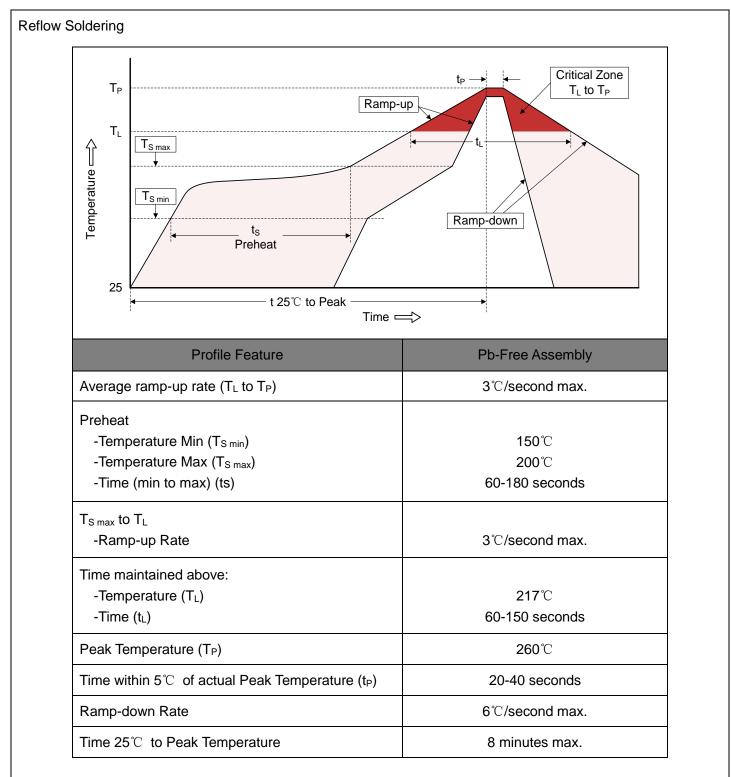
Notes: ① Specific code by request.

Electrical Ratings

Items	Test Condition/Description	Requirement	
DC Spark-over Voltage	The voltage is measured with voltage ramp dv/dt=100V/s.		
Maximum Impulse Spark-over Voltage	The maximum impulse spark-over voltage is measured with voltage ramp dv/dt=1000V/ μ s.		
Impulse Discharge Current	dv/dt=1000V/µs. Maximum 8/20µs surge current that can be applied between two electrodes, 5 positive and 5 negative surges, with 3 minutes interval time. $\int_{0}^{100} \int_{0}^{100} \int_{0}$		

Resistance	The resistance of gas tube shall be measured between two electrodes.
Capacitance	The capacitance of gas tube shall be measured between two electrodes. Test frequency: 1MHz

Recommended Soldering Conditions



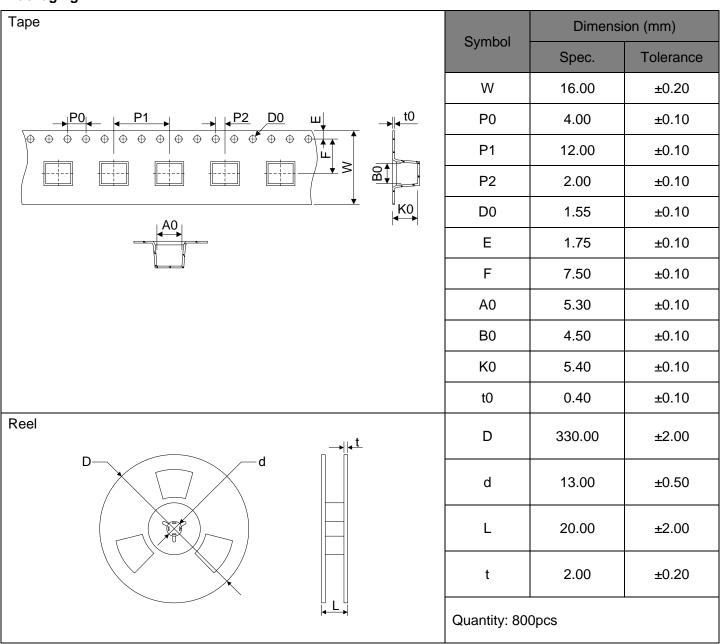
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