

Gas Discharge Tube (GDT) Data Sheet

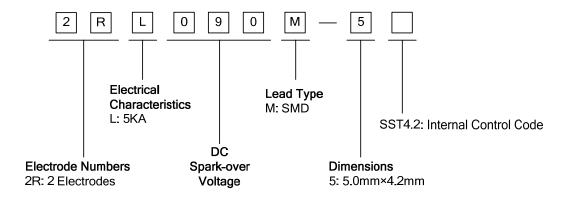
Features

- 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

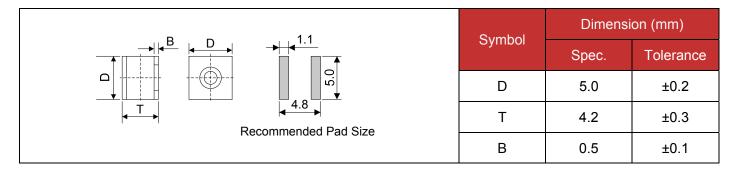
Applications

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

Part Number Code



Dimensions







Electrical Characteristics

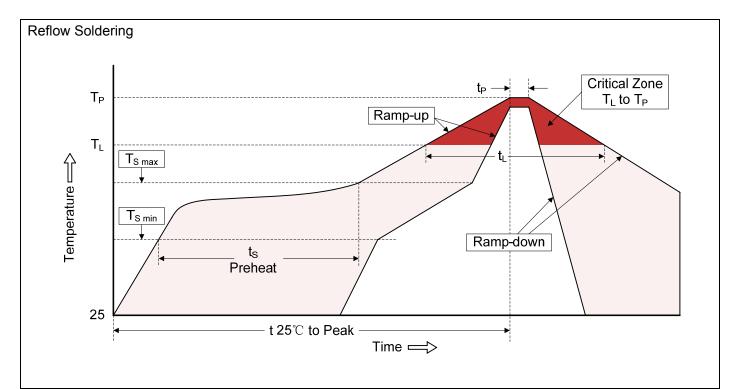
Model Number: 2RL090M-5				Part Number: 2RL090M-5 SST4.2				
DC Spark-over Voltage	Maximum Impulse Spark-over Voltage	Nominal Impulse Discharge Current	Alternating Discharge Current	Impulse Life	Minim Insulat Resista	ion	Maximum Capacitance	Arc Voltage
100V/s	1000V/µs	8/20µs ±5times	50Hz,1sec	10/1000µs 100A	Test Voltage	(GΩ)	1MHz	@1A
(V)	(V)	(KA)	(A)	(times)	DC(V)		(pF)	(V)
90±20%	650	5.0	5.0	500	50	1.0	1.0	~8

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/µs.	
Impulse Discharge Current	Maximum 8/20µs surge current that can be applied between two electrodes, 5 positive and 5 negative surges, with 3 minutes interval time, without causing the DC spark-over voltage to change more than 25% from its initial value. Crest value 100 90 10 20µs Impulse Width	To meet the specified value
Alternating Discharge Current	Rated RMS value of AC current at 50Hz, 1 sec. for 10 times with interval time 3 min. DC spark-over voltage shall not change more than $\pm 25\%$ from its initial value. IR>10 ⁸ ohms (-20%, +30% for 70~90V).	
Insulation 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

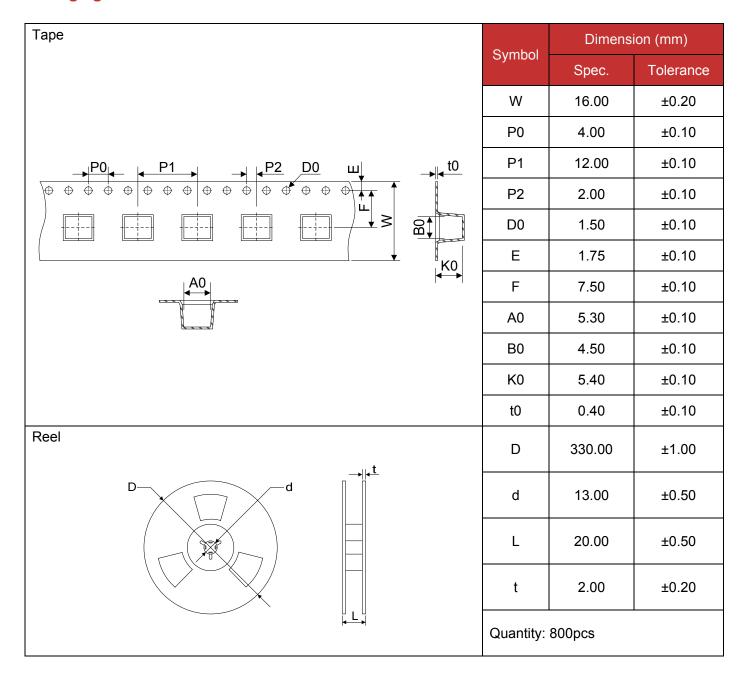


Recommended Conditions

Profile Feature	Pb-Free Assembly		
Average ramp-up rate (T _L to T _P)	3℃/second max.		
Preheat			
-Temperature Min (T _{S min})	150℃		
-Temperature Max (T _{S max})	200℃		
-Time (min to max) (ts)	60-180 seconds		
T _{S max} to T _L			
-Ramp-up Rate	3℃/second max.		
Time maintained above:			
-Temperature (T _L)	217℃		
-Time (t _L)	60-150 seconds		
Peak Temperature (T _P)	260℃		
Time within 5℃ of actual Peak Temperature (t _P)	20-40 seconds		
Ramp-down Rate	6℃/second max.		
Time 25℃ to Peak Temperature	8 minutes max.		



Packaging



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