

Gas Discharge Tube (GDT) Data Sheet

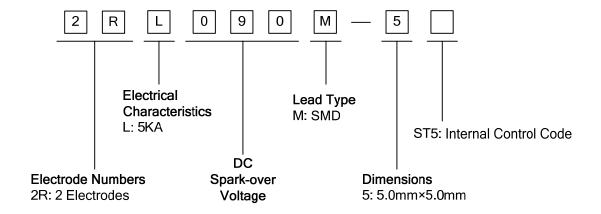
Features

- 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 (≤1.0pF)
- High holdover voltage
- Large absorbing transient current capability.
- Micro-Gap Design
- Size: 5.0mm*5.0mm
- Storage and operational 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



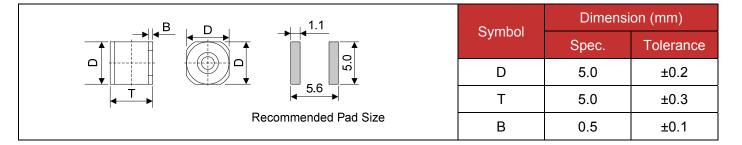
Marking

B: BritghtKing Logo 2RL090-5: Device Marking Code

YXXX : Date Code



Dimensions



Electrical Characteristics

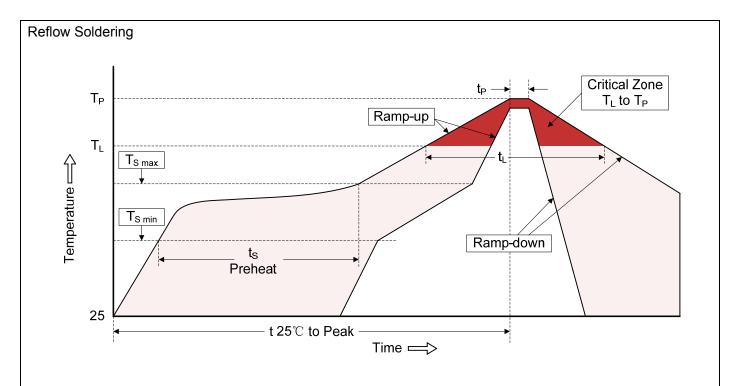
Model Number: 2RL090M-5				Part Number: 2RL090M-5 ST5				
DC Spark-over Voltage	Maximum Impulse Spark-over Voltage	Nominal Impulse Discharge Current	Alternating Discharge Current	Impulse Life	Minim Insula Resista	tion	Maximum Capacitance	Device
100V/s	1000V/µs	8/20µs 10times	50Hz,1sec	10/1000µs 100A	Test Voltage	(GΩ)	1MHz	Marking Code
(V)	(V)	(KA)	(A)	(times)	DC(V)		(pF)	
90±20%	650	5.0	5.0	300	50	1.0	1.0	2RL090-5

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, 10 times, 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 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 ±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	Capacitance The capacitance of gas tube shall be measured between two electrodes. Test frequency: 1MHz	



Recommended Soldering Conditions

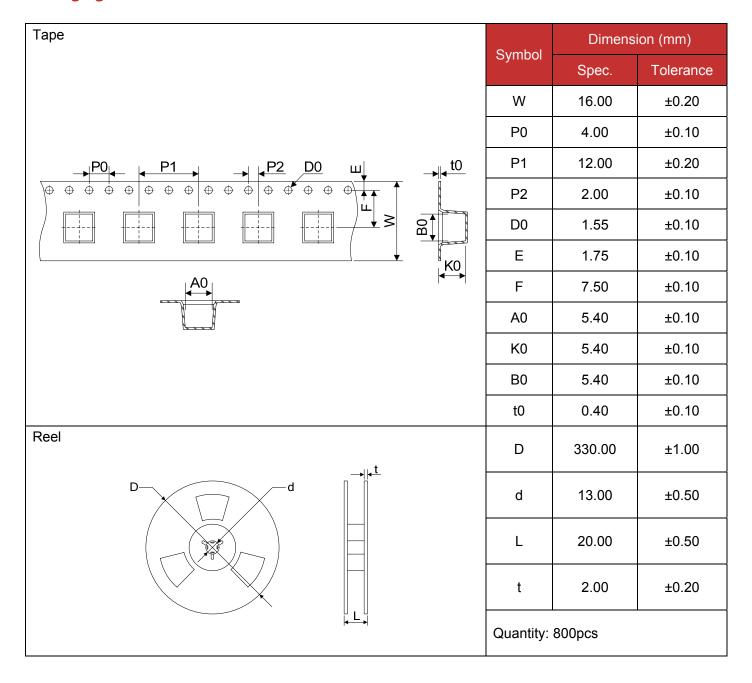


Recommended Conditions

Profile Feature	Pb-Free Assembly		
Average ramp-up rate (T _L to T _P)	3°C/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°C/second max.		
Time maintained above:			
-Temperature (T _L)	217 ℃		
-Time (t _L)	60-150 seconds		
Peak Temperature (T _P)	260℃		
Time within 5°C of actual Peak Temperature (t _P)	20-40 seconds		
Ramp-down Rate	6°C/second max.		
Time 25°C to Peak Temperature	8 minutes max.		



Packaging



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for brightking manufacturer:

Other Similar products are found below:

1.5KE220A SMDJ33A SMDJ78A 3RM230L-8 LES08A05L05 SMDJ6.5CA-AT 5.0SMDJ17A 5.0SMDJ33CA 911KD14J 5KP12A

5KP120A 471KD25 2RM075M-8 112KD14 2RK3000M-8 5.0SMDJ100A 2RH2000M-8 820KD20J 30KPA30A 182KD20 SMDJ43A

5.0SMDJ12A SMDJ18CA-AT BK16-600-SZ BK12005002-M 1.5KE22A 5.0SMDJ130CA 5KP90CA 1.5SMC24A 15KPA30A 181KD20

101KD20 470KD20J 5KP40CA 15KPA75CA 4532-471-LF 15KPA30CA BK22002002-M SMDJ33CA-AT 5.0SMDJ78CA 3RL150M-5-S

15KPA24A SMDJ110CA SMDJ5.0CA-AT 30KPA45CA 15KPA58CA 15KPA33A 821KD25 P0900SC P0720SC