

DATA SHEET

GAS DISCHARGE TUBES
TELEPHONE INTERFACE
2R-8x6(S) series
RoHS compliant & free





Gas Discharge Tube (GDT) Data Sheet

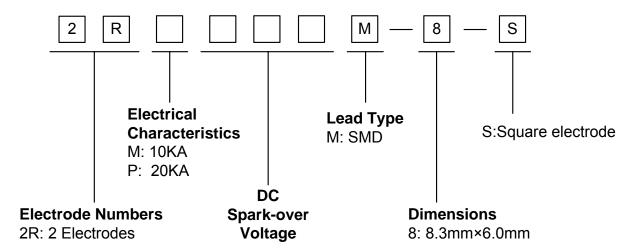
Features

- 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 (≤1.5pF)
- High holdover voltage
- Large absorbing transient current capability
- Micro-Gap Design
- Size: 8.3mm*6.0mm
- 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



Marking

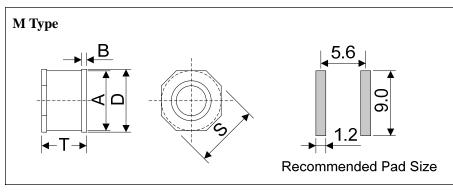
B: BrightKing Logo

2RP090-8: Device Marking Code
XXXX: Internal Control Code



2R-8x6(S) series

Dimensions



Symbol	Dimension (mm)		
Symbol	Spec.	Tolerance	
Α	8.0	±0.20	
В	0.5	±0.10	
D	8.3	±0.20	
Т	6.0	±0.25	
S	9.0	±0.40	

Electrical Characteristics

Part	DC Spark-over Voltage	Maximum Impulse Spark-over Voltage	Nominal Impulse Discharge Current	Single Impulse Discharge Current	Alternating Discharge Current	Impulse Life	Minin Insula Resist	ation	Maximum Capacitance	Device Marking Code
Number	100V/s	1000V/µs	8/20µs 10times	10/350µs	50Hz,1sec	10/1000 μs	Test Voltag	(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	2RM075-8
2RM090M-8-S	90±20%	600	10	2.5	10	500	50	1.0	1.5	2RM090-8
2RM150M-8-S	150±20%	600	10	2.5	10	500	100	1.0	1.5	2RM150-8
2RM230M-8-S	230±20%	700	10	2.5	10	500	100	1.0	1.5	2RM230-8
2RM250M-8-S	250±20%	700	10	2.5	10	500	100	1.0	1.5	2RM250-8
2RM300M-8-S	300±20%	900	10	2.5	10	500	100	1.0	1.5	2RM300-8
2RM350M-8-S	350±20%	900	10	2.5	10	500	100	1.0	1.5	2RM350-8
2RM420M-8-S	420±20%	1000	10	2.5	10	500	100	1.0	1.5	2RM420-8
2RM470M-8-S	470±20%	1000	10	2.5	10	500	250	1.0	1.5	2RM470-8
2RM600M-8-S	600±20%	1200	10	2.5	10	500	250	1.0	1.5	2RM600-8
2RM800M-8-S	800±20%	1500	10	2.5	10	500	250	1.0	1.5	2RM800-8
2RM1000M-8-S	1000±20%	1700	10	2.5	10	500	250	1.0	1.5	2RM1000-8
2RM1500M-8-S	1500±20%	2300	10	2.5	5	500	500	1.0	1.5	2RM1500-8
2RP075M-8-S	75±20%	600	20	5.0	20	500	25	1.0	1.5	2RP075-8
2RP090M-8-S	90±20%	600	20	5.0	20	500	50	1.0	1.5	2RP090-8
2RP150M-8-S	150±20%	600	20	5.0	20	500	100	1.0	1.5	2RP150-8
2RP230M-8-S	230±20%	700	20	5.0	20	500	100	1.0	1.5	2RP230-8
2RP250M-8-S	250±20%	700	20	5.0	20	500	100	1.0	1.5	2RP250-8
2RP300M-8-S	300±20%	900	20	5.0	20	500	100	1.0	1.5	2RP300-8
2RP350M-8-S	350±20%	900	20	5.0	20	500	100	1.0	1.5	2RP350-8
2RP420M-8-S	420±20%	1000	20	5.0	20	500	100	1.0	1.5	2RP420-8
2RP470M-8-S	470±20%	1000	20	5.0	20	500	250	1.0	1.5	2RP470-8
2RP600M-8-S	600±20%	1200	20	5.0	20	500	250	1.0	1.5	2RP600-8
2RP800M-8-S	800±20%	1500	20	5.0	20	500	250	1.0	1.5	2RP800-8
2RP1000M-8-S	1000±20%	1700	20	5.0	20	500	250	1.0	1.5	2RP1000-8

GAS DISCHARGE TUBS

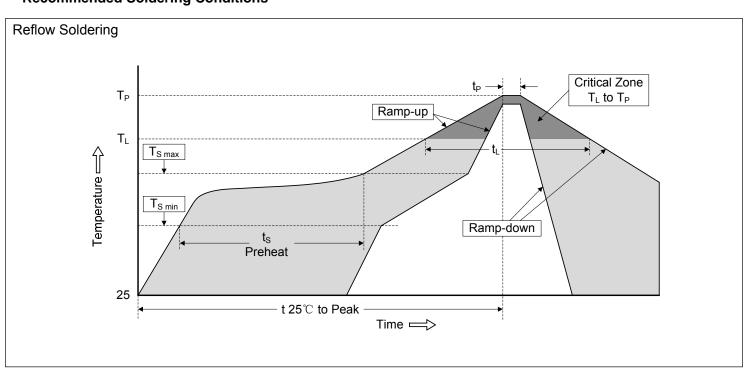
2R-8x6(S) series

Product Specification

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. 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.	
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

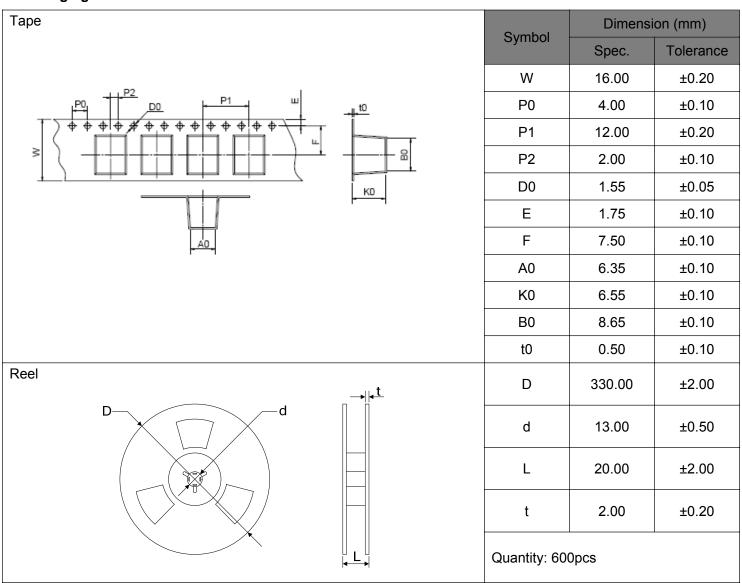


GAS DISCHARGE TUBS 2R-8x6(S) series

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}) -Temperature Max (T _{S max}) -Time (min to max) (ts)	150℃ 200℃ 60-180 seconds
T _{S max} to T _L -Ramp-up Rate	3℃/second max.
Time maintained above: -Temperature (T _L) -Time (t _L)	217°C 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



2R-8x6(S) series

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>>Brightking(君耀电子)