

DATA SHEET

GAS DISCHARGE TUBES TELEPHONE INTERFACE2R-8x6(D1) series

RoHS compliant & free





Gas Discharge Tube (GDT) Data Sheet

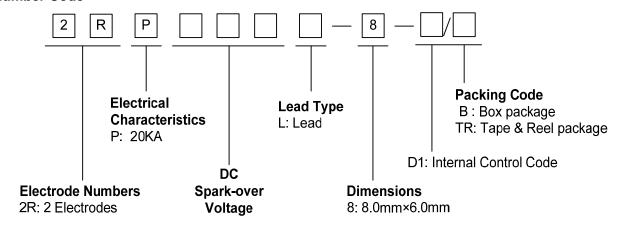
Features

- 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: 8.0mm*6.0mm
- Storage and operating temperature: -40° C ~ $+85^{\circ}$ 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



Ordering Code	Lead type	Package
2RPXXXL-8-D1/B	Lead	Box(Tray)
2RPXXXL-8-D1/TR	Lead	Tape & Reel



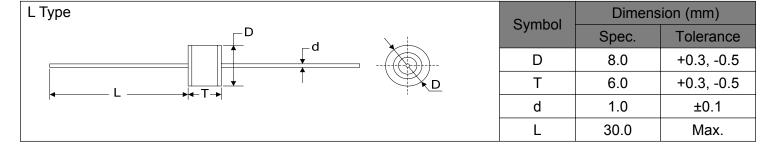
GAS DISCHARGE TUBS

Marking

B: BrightKing Logo

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

Dimensions



Characteristics

Part	DC Spark-over Voltage	Maximum Impulse Spark-over Voltage	Nominal Impulse Discharge Current	Alternating Discharge Current	Impulse Life	Minimum Insulation Resistance		Maximum Capacitance	Device Marking
Number	100V/s	1000V/µs	8/20µs 10times	50Hz,1sec	10/1000μs 100A	Test Voltage	(GΩ)	1MHz	Code
	(V)	(V)	(KA)	(A)	(times)	DC(V)		(pF)	
2RP075L-8-D1	75±20%	600	20	20	500	25	1.0	1.5	2RP075-8
2RP090L-8-D1	90±20%	600	20	20	500	50	1.0	1.5	2RP090-8
2RP145L-8-D1	145±20%	700	20	20	500	100	1.0	1.5	2RP145-8
2RP150L-8-D1	150±20%	700	20	20	500	100	1.0	1.5	2RP150-8
2RP230L-8-D1	230±20%	700	20	20	500	100	1.0	1.5	2RP230-8
2RP250L-8-D1	250±20%	800	20	20	500	100	1.0	1.5	2RP250-8
2RP300L-8-D1	300±20%	900	20	20	500	100	1.0	1.5	2RP300-8
2RP350L-8-D1	350±20%	900	20	20	500	100	1.0	1.5	2RP350-8
2RP400L-8-D1	400±20%	1000	20	20	500	100	1.0	1.5	2RP400-8
2RP470L-8-D1	470±20%	1100	20	20	500	250	1.0	1.5	2RP470-8
2RP600L-8-D1	600±20%	1300	20	20	500	250	1.0	1.5	2RP600-8
2RP800L-8-D1	800±20%	1500	20	20	500	250	1.0	1.5	2RP800-8

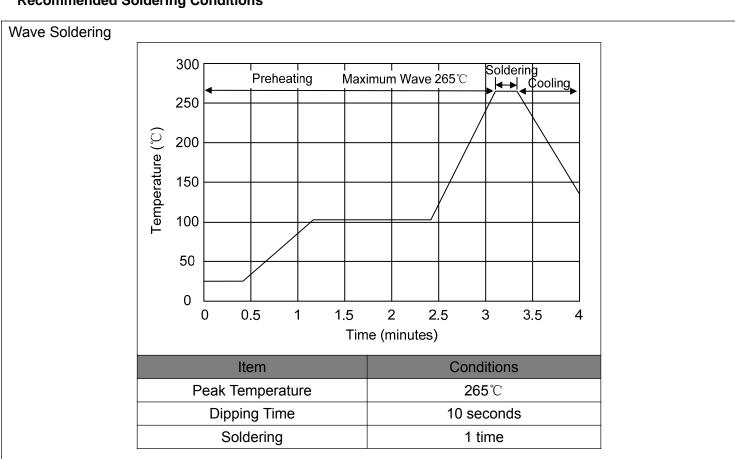
2R-8x6(D1) series

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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 90 100 100 100 100 100 100 100 100	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	

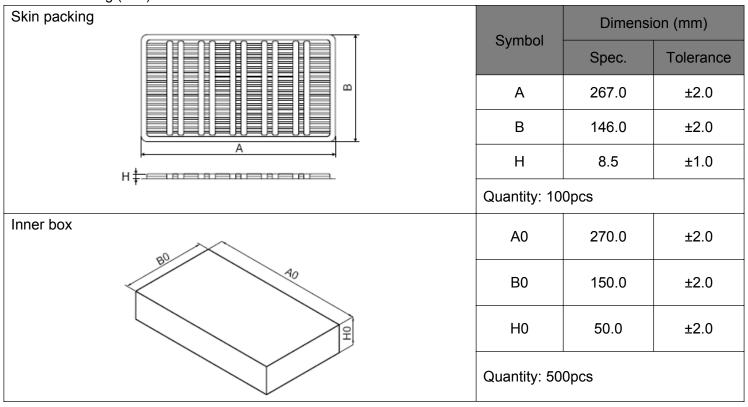
Recommended Soldering Conditions



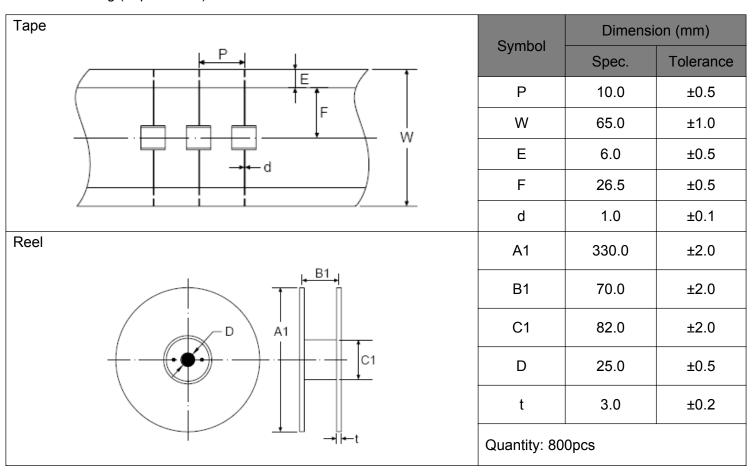
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Packaging

Axial Packing (Box)



Axial Packing (Tape & Reel)



2R-8x6(D1) series

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>>Brightking(君耀电子)