

DATA SHEET

GAS DISCHARGE TUBES TELEPHONE INTERFACE

2R-8x6 series

RoHS compliant & free





Gas Discharge Tube (GDT) Data Sheet

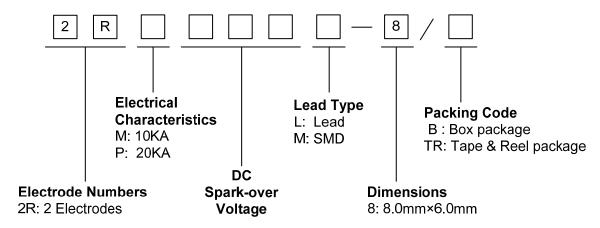
Features

- 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	Packing
2RMXXXL-8/B 2RPXXXL-8/B	Lead	Box (Tray)
2RMXXXL-8/TR 2RPXXXL-8/TR	Lead	Tape & Reel
2RMXXXM-8 2RPXXXM-8	SMD	Tape & Reel



2R-8x6 series

Marking

B: BritghtKing Logo

2RM090-8 : Device Marking Code XXXX : Internal Control Code

Dimensions

L Type	Symbol	Dimension (mm)	
_D	Symbol	Spec.	Tolerance
T d D	D	8.0	+0.3, -0.5
	T	6.0	+0.3, -0.5
L → T→	d	0.8	±0.1
	L	30.0	Max.
M Type	D	8.0	+0.3, -0.5
D 1.5 □ 1.5		6.0	+0.3, -0.5
Recommended Pad Size	В	0.5	±0.1

Electrical Characteristics

Part Number	DC Spark-over Voltage	Maximum Impulse Spark-over Voltage	Nominal Impulse Discharge Current	Alternating Discharge Current	Impulse Life		mum ation tance	Maximum Capacitance	Device Marking	
Nur	nber	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)	
2RM075L-8	2RM075M-8	75±20%	600	10	10	500	25	1.0	1.5	2RM075-8
2RM090L-8	2RM090M-8	90±20%	600	10	10	500	50	1.0	1.5	2RM090-8
2RM120L-8	2RM120M-8	120±20%	600	10	10	500	50	1.0	1.5	2RM120-8
2RM145L-8	2RM145M-8	145±20%	700	10	10	500	100	1.0	1.5	2RM145-8
2RM150L-8	2RM150M-8	150±20%	700	10	10	500	100	1.0	1.5	2RM150-8
2RM230L-8	2RM230M-8	230±20%	700	10	10	500	100	1.0	1.5	2RM230-8
2RM250L-8	2RM250M-8	250±20%	800	10	10	500	100	1.0	1.5	2RM250-8
2RM300L-8	2RM300M-8	300±20%	900	10	10	500	100	1.0	1.5	2RM300-8
2RM350L-8	2RM350M-8	350±20%	900	10	10	500	100	1.0	1.5	2RM350-8
2RM400L-8	2RM400M-8	400±20%	1000	10	10	500	100	1.0	1.5	2RM400-8
2RM470L-8	2RM470M-8	470±20%	1100	10	10	500	250	1.0	1.5	2RM470-8
2RM600L-8	2RM600M-8	600±20%	1300	10	10	500	250	1.0	1.5	2RM600-8
2RM800L-8	2RM800M-8	800±20%	1500	10	10	500	250	1.0	1.5	2RM800-8
2RP075L-8	2RP075M-8	75±20%	600	20	20	500	25	1.0	1.5	2RP075-8
2RP090L-8	2RP090M-8	90±20%	600	20	20	500	50	1.0	1.5	2RP090-8
2RP120L-8	2RP120M-8	120±20%	600	20	20	500	50	1.0	1.5	2RP120-8
2RP145L-8	2RP145M-8	145±20%	700	20	20	500	100	1.0	1.5	2RP145-8
2RP150L-8	2RP150M-8	150±20%	700	20	20	500	100	1.0	1.5	2RP150-8
2RP230L-8	2RP230M-8	230±20%	700	20	20	500	100	1.0	1.5	2RP230-8
2RP250L-8	2RP250M-8	250±20%	800	20	20	500	100	1.0	1.5	2RP250-8
2RP300L-8	2RP300M-8	300±20%	900	20	20	500	100	1.0	1.5	2RP300-8
2RP350L-8	2RP350M-8	350±20%	900	20	20	500	100	1.0	1.5	2RP350-8
2RP400L-8	2RP400M-8	400±20%	1000	20	20	500	100	1.0	1.5	2RP400-8
2RP470L-8	2RP470M-8	470±20%	1100	20	20	500	250	1.0	1.5	2RP470-8
2RP600L-8	2RP600M-8	600±20%	1300	20	20	500	250	1.0	1.5	2RP600-8
2RP800L-8	2RP800M-8	800±20%	1500	20	20	500	250	1.0	1.5	2RP800-8

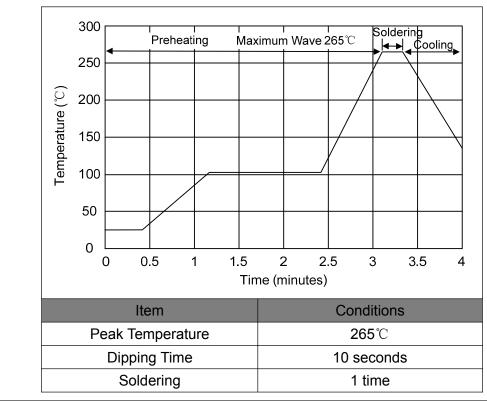
2R-8x6 series

Electrical Ratings

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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.	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	

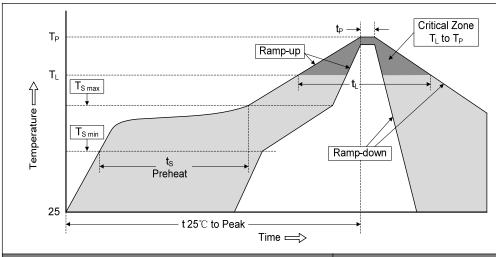
Recommended Soldering Conditions





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Reflow Soldering



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∟)	60-150 seconds
Peak Temperature (T _P)	260℃
Time within 5℃ of actual Peak Temperature (t _P)	20-40 seconds
Ramp-down Rate	6°C/second max.
Time 25℃ to Peak Temperature	8 minutes max.

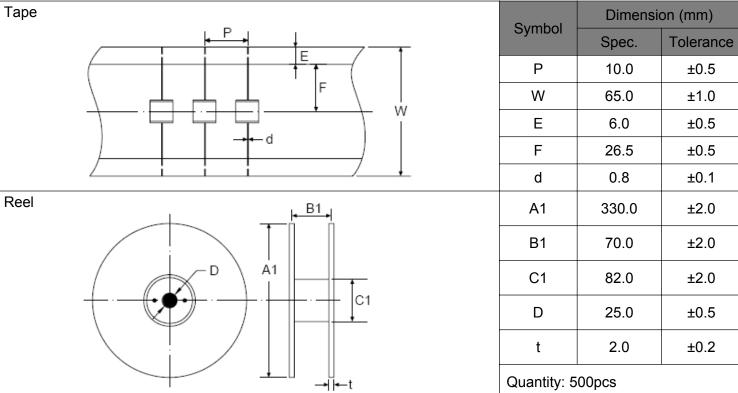
Packaging

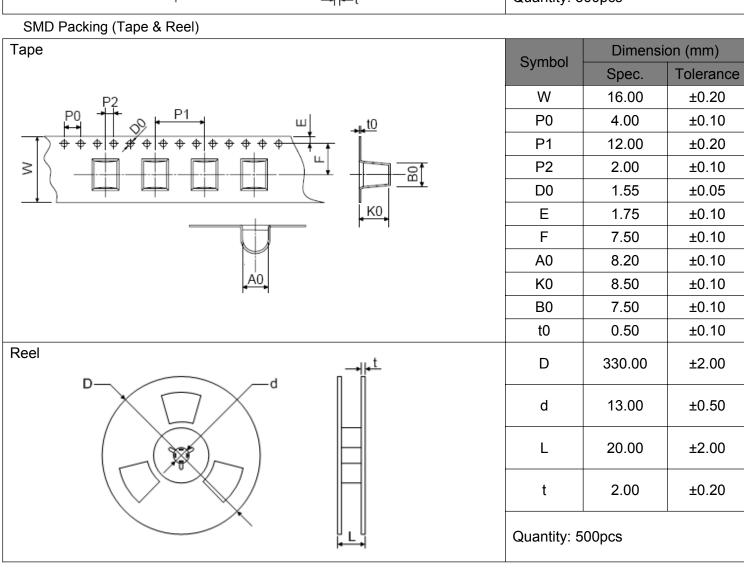
Axial Packing (Box)

Skin packing		Dimension (mm)	
	Symbol	Spec.	Tolerance
	Α	267.0	±2.0
	В	146.0	±2.0
A	Н	8.5	±1.0
H 	Quantity: 100pcs		
Inner box		270.0	±2.0
		150.0	±2.0
		50.0	±2.0
		Quantity: 500pcs	

GAS DISCHARGE TUBS 2R-8x6 series

Axial Packing (Tape & Reel)







Circuit Protection Components

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>>Brightking(君耀电子)