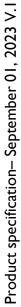


DATA SHEET

GAS DISCHARGE TUBES TELEPHONE INTERFACE 2R-8x8 series

RoHS compliant & free







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GAS DISCHARGE TUBS

2R-8x8 series

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Gas Discharge Tube (GDT) Data Sheet

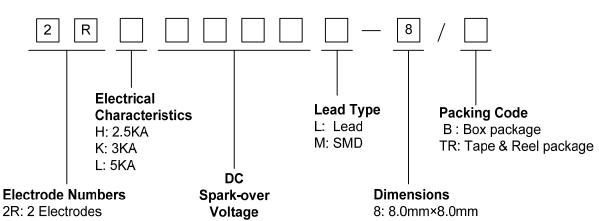
Features

- 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*8.0mm
- 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



Ordering Code	Lead type	Packing
2RHXXXXL-8/B 2RKXXXXL-8/B 2RLXXXXL-8/B	Lead	Box (tray)
2RHXXXXL-8/TR 2RKXXXL-8/TR 2RLXXXXL-8/TR	Lead	Tape & Reel
2RHXXXXM-8 2RKXXXXM-8 2RLXXXXM-8	SMD	Tape & Reel



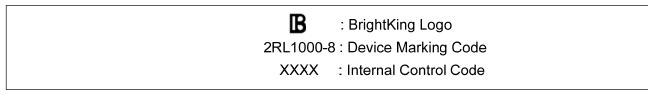
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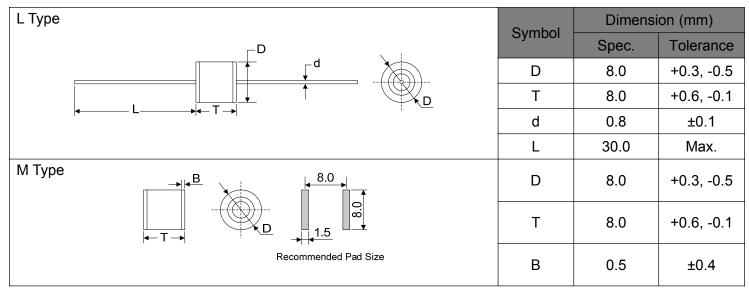
2R-8x8 series

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Marking



Dimensions



Electrical Characteristics

Part Number	DC Spark-over Voltage	Maximum Impulse Spark-over Voltage	Nominal Impulse Discharge Current	Alternating Discharge Current	Impulse Life	Minim Insula Resista	tion	Maximum Capacitance	AC Withstanding	Device Marking
\$	100V/s	1000V/µs	8/20µs 10times	50Hz,1sec	10/1000µs 100A	Test Voltage	(GΩ)	1MHz	Voltage	Code
	(V)	(V)	(KA)	(A)	(times)	DC(V)		(pF)		
2RH1400X-8	1400±20%	2200	2.5	2.5	100	500	1.0	1.5	-	2RH1400-8
2RH1600X-8	1600±20%	2400	2.5	2.5	100	500	1.0	1.5	-	2RH1600-8
2RH2000X-8	2000±20%	3000	2.5	2.5	100	500	1.0	1.5	-	2RH2000-8
2RH2500X-8	2500±20%	3600	2.5	2.5	100	500	1.0	1.5	AC1250V,1min	2RH2500-8
2RH2700X-8	2700±20%	4000	2.5	2.5	300*	1000	1.0	1.5	AC1250V,1min	2RH2700-8
2RH3000X-8	3000±20%	4200	2.5	2.5	100	1000	1.0	1.5	AC1500V,1min	2RH3000-8
2RH3500X-8	3500±20%	5000	2.5	2.5	100	1000	1.0	1.5	AC1800V,1min	2RH3500-8
2RH3600X-8	3600±20%	5200	2.5	2.5	100	1000	1.0	1.5	AC1800V,1min	2RH3600-8
2RK2700X-8	2700±20%	4000	3.0	3.0	300*	1000	1.0	1.5	AC1250V,1min	2RK2700-8
2RK3000X-8	3000±20%	4200	3.0	3.0	300*	1000	1.0	1.5	AC1500V,1min	2RK3000-8
2RK3500X-8	3500±20%	5000	3.0	3.0	100	1000	1.0	1.5	AC1800V,1min	2RK3500-8
2RK3600X-8	3600±20%	5200	3.0	3.0	100	1000	1.0	1.5	AC1800V,1min	2RK3600-8
2RK4000X-8	4000±20%	5500	3.0	3.0	100	1000	1.0	1.5	AC2000V,1min	2RK4000-8
2RL1000X-8	1000±20%	1400	5.0	5.0	100	500	1.0	1.5	-	2RL1000-8
2RL1400X-8	1400±20%	2200	5.0	5.0	100	500	1.0	1.5	-	2RL1400-8
2RL1600X-8	1600±20%	2400	5.0	5.0	100	500	1.0	1.5	-	2RL1600-8
2RL2000X-8	2000±20%	3000	5.0	5.0	100	500	1.0	1.5	-	2RL2000-8
2RL2500X-8	2500±20%	3600	5.0	5.0	100	1000	1.0	1.5	AC1250V,1min	2RL2500-8

* Measured with an 8/20µs waveform, 100A.

rightarrow X may be L(Lead type) or M(SMD type).

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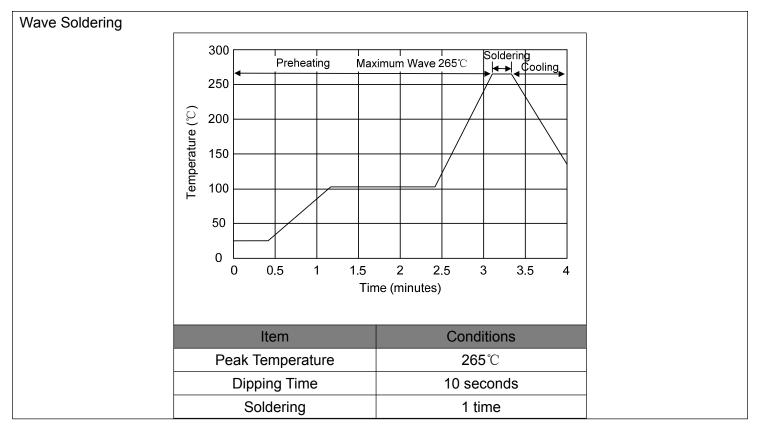
GAS DISCHARGE TUBS

2R-8x8 series

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/ μ s.	
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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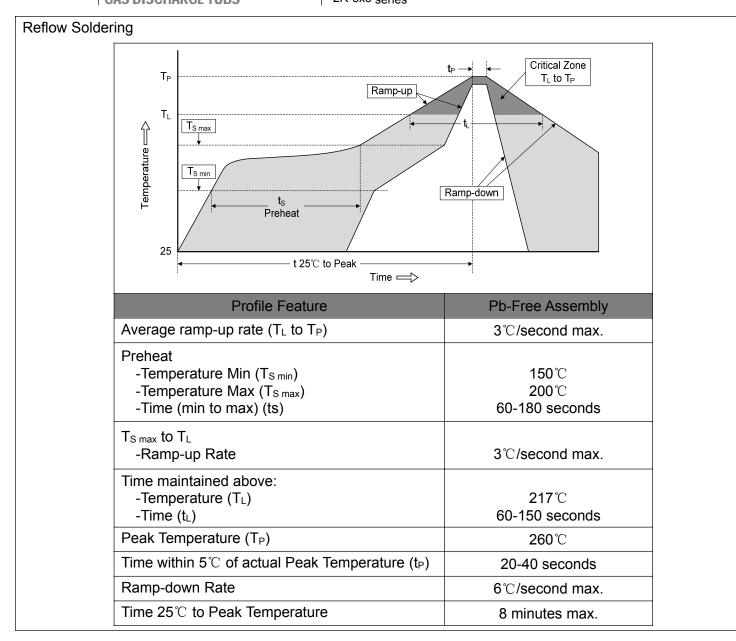


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GAS DISCHARGE TUBS

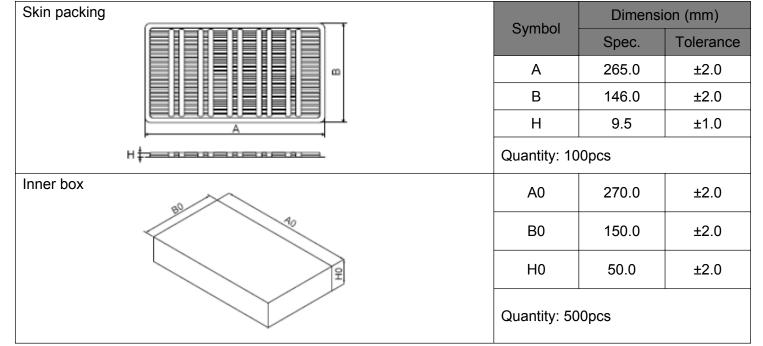
2R-8x8 series





Packaging

Axial Packing (Box)

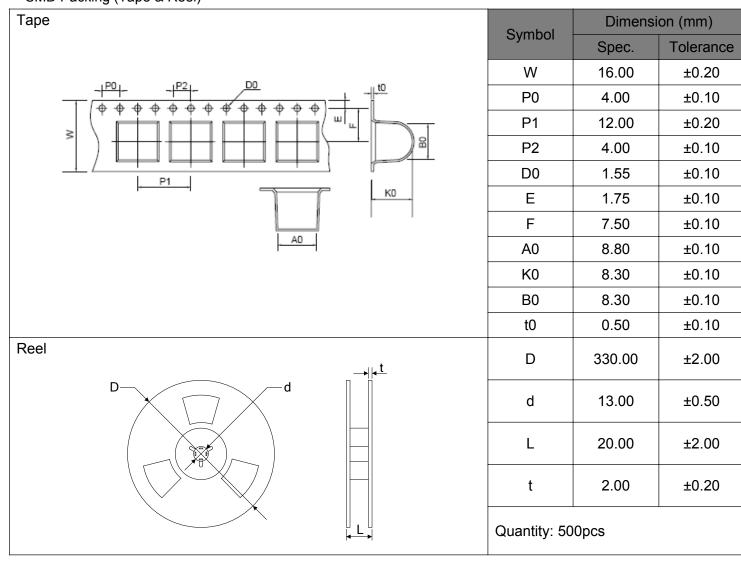


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Circuit Protection GAS DISCHARGE TUBS Axial Packing (Tape & Reel) Tape Implementation of the series Reel Implementation of the series Reel

	Symbol	Dimension (mm)			
	Symbol	Spec.	Tolerance		
	Р	10.0	±0.5		
	W	65.0	±1.0		
	E	6.0	±0.5		
	F	26.5	±0.5		
	d	0.8	±0.1		
	A1	330.0	±2.0		
	B1	70.0	±2.0		
	C1	82.0	±2.0		
	D	25.0	±0.5		
	t	2.0	±0.2		
	Quantity: 500pcs				

SMD Packing (Tape & Reel)



GAS DISCHARGE TUBS

2R-8x8 series

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