

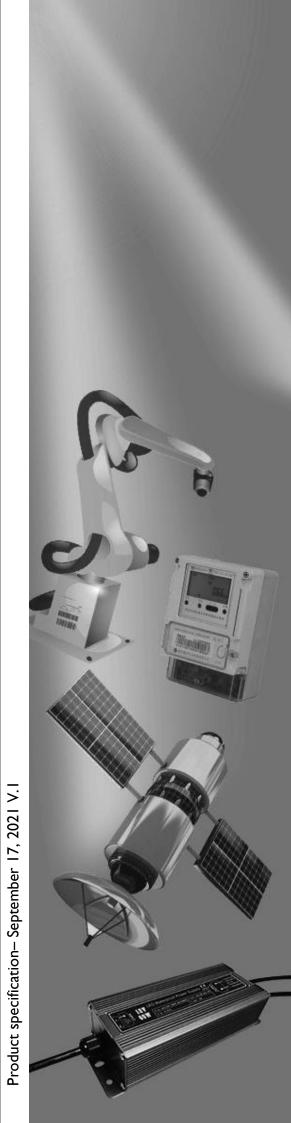
DATA SHEET

GAS DISCHARGE TUBES
TELEPHONE INTERFACE

2R-6x7 series

RoHS compliant & free





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Gas Discharge Tube (GDT) Data Sheet

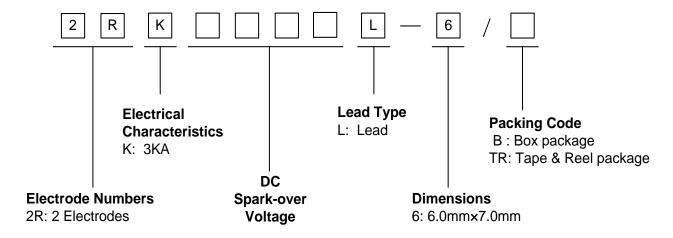
Features

- 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 (≤0.5pF)
- High holdover voltage
- Large absorbing transient current capability.
- Micro-Gap Design
- Size: 6.0mm*7.0mm
- 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
2RKXXXXL-6/B	Lead	Box(Tray)
2RKXXXXL-6/TR	Lead	Tape & Reel

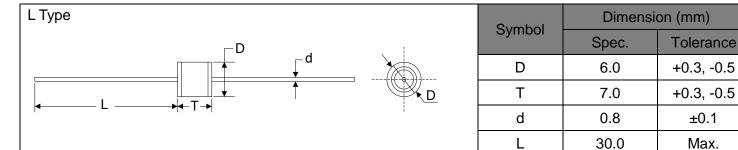


Marking

B : BrightKing Logo

2RK1000-6: Device Marking Code XXXX : Internal Control Code

Dimensions



Electrical Characteristics

Part Number	DC Spark-over Voltage	Maximum Impulse Spark-over Voltage	Nominal Impulse Discharge Current	Impulse Life	Minim Insulat Resista	ion	Maximum Capacitance	AC Withstanding	Device Marking
Number	100V/s	1000V/µs	8/20µs 10times	8/20µs 100A	Test Voltage	(GΩ)	1MHz	Voltage	Code
	(V)	(V)	(KA)	(times)	DC(V)	,	(pF)		
2RK1000L-6	1000±20%	2000	3.0	300	500	1.0	0.5	-	2RK1000-6
2RK1200L-6	1200±20%	2300	3.0	300	500	1.0	0.5	-	2RK1200-6
2RK1400L-6	1400±20%	2500	3.0	300	500	1.0	0.5	-	2RK1400-6
2RK1500L-6	1500±20%	2600	3.0	300	500	1.0	0.5	-	2RK1500-6
2RK1600L-6	1600±20%	2700	3.0	300	500	1.0	0.5	-	2RK1600-6
2RK2000L-6	2000±20%	3000	3.0	300	500	1.0	0.5	•	2RK2000-6
2RK2500L-6	2500±20%	3600	3.0	300	1000	1.0	0.5	AC1250V,1min	2RK2500-6
2RK2700L-6	2700±20%	3800	3.0	300	1000	1.0	0.5	AC1250V,1min	2RK2700-6
2RK3000L-6	3000±20%	4200	3.0	300	1000	1.0	0.5	AC1500V,1min	2RK3000-6
2RK3500L-6	3500±20%	4600	3.0	300	1000	1.0	0.5	AC1800V,1min	2RK3500-6
2RK3600L-6	3600±20%	4700	3.0	300	1000	1.0	0.5	AC1800V,1min	2RK3600-6

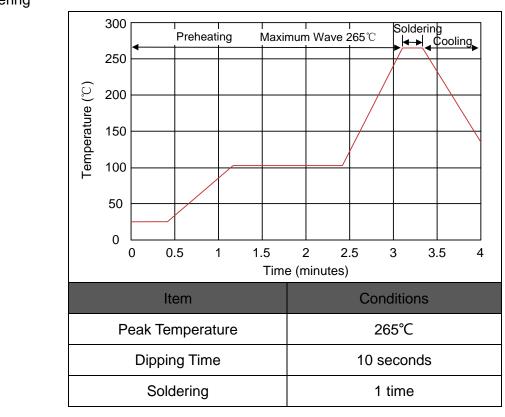
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Electrical Ratings

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 the two electrodes, 5 positive and 5 negative surges, with 3 minutes interval time. Crest value 100 90 10 0 10 10 10 10 10 10 10 10 10 10 10	To meet the specified value
Insulation Resistance	The resistance of gas tube shall be measured between the two electrodes.	
Capacitance	The capacitance of gas tube shall be measured between two electrodes. Test frequency: 1MHz	

Recommended Soldering Conditions

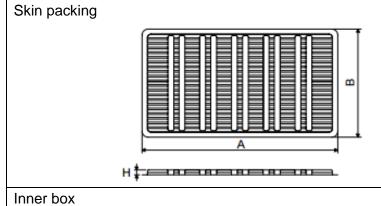
Wave Soldering



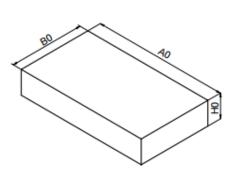


Packaging

Axial Packing (Box)



Symbol	Dimension (mm)			
Symbol	Spec.	Tolerance		
Α	267.0	±2.0		
В	146.0	±2.0		
Н	7.2	±1.0		
Quantity: 100pcs				

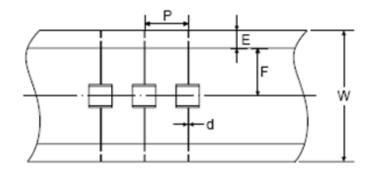


Quantity: 100pcs			
A0	272.0	±2.0	
В0	152.0	±2.0	
Н0	42.0	±2.0	

Quantity: 500pcs

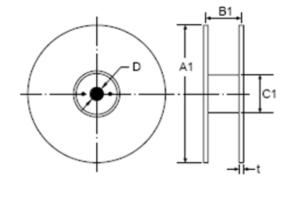
Axial Packing (Tape & Reel)





Cympol	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		

Reel





Circuit Protection Components

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