

DATA SHEET

GAS DISCHARGE TUBES TELEPHONE INTERFACE

2R-4 series

RoHS compliant & free





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Gas Discharge Tube (GDT) Data Sheet

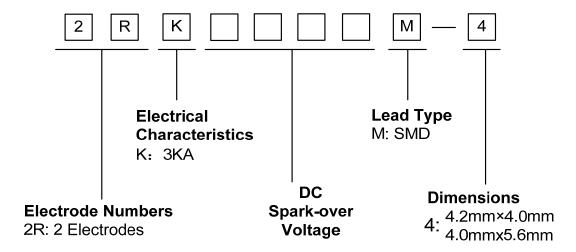
Features

- 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 (≤1pF)
- High holdover voltage
- Large absorbing transient current capability
- Micro-Gap Design
- Size: 4.2mm*4.0mm
- 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



Marking

090 : Device Marking Code XXXX: Internal Control Code



Τ

В

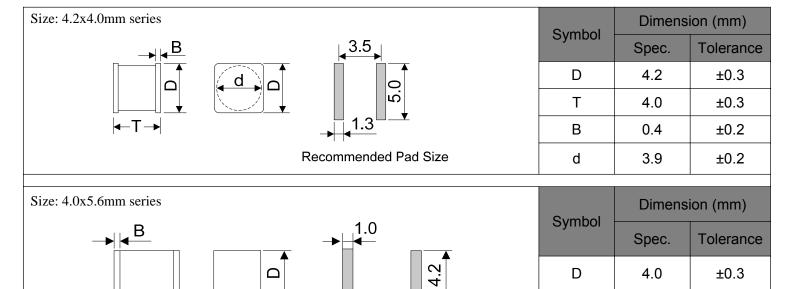
5.6

0.5

±0.3

±0.2

Dimensions



Recommended Pad Size

Electrical Characteristics

Part Number	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
	100V/s	1000V/µs	8/20µs 10times	50Hz,1sec	10/1000µs 100A	Test Voltage	(GΩ)	1MHz	Code
	(V)	(V)	(KA)	(A)	(times)	DC(V)	(012)	(pF)	
2RK075M-4	75±20%	800	3	3	300	25	1	1.0	075
2RK090M-4	90±20%	800	3	3	300	50	1	1.0	090
2RK145M-4	145±20%	800	3	3	300	100	1	1.0	145
2RK230M-4	230±20%	700	3	3	300	100	1	1.0	230
2RK250M-4	250±20%	700	3	3	300	100	1	1.0	250
2RK300M-4	300±20%	800	3	3	300	100	1	1.0	300
2RK350M-4	350±20%	850	3	3	300	100	1	1.0	350
2RK400M-4	400±20%	900	3	3	300	100	1	1.0	400
2RK470M-4	470±20%	1000	3	3	300	250	1	1.0	470
2RK600M-4	600±20%	1200	3	3	300	250	1	1.0	600
2RK800M-4	800±20%	1400	3	3	300	250	1	1.0	800
2RK1000M-4	1000±20%	1600	3	3	300	500	1	1.0	1000
2RK1200M-4	1200±20%	1900	3	3	300	500	1	1.0	1200

Note: Size 4.2x4.0mm series

GAS DISCHARGE TUBS

2R-4 series

Part Number	DC Spark-over Voltage	Maximum Impulse Spark-over Voltage	Nominal Impulse Discharge Current	Impulse Life	Minim Insula Resista	tion	Maximum Capacitance	AC Withstanding Voltage	Device Marking Code
	100V/s	1000V/µs	8/20µs 10times	8/20µs 100A	Test Voltage	(GΩ)	1MHz		
	(V)	(V)	(KA)	(times)	DC(V)		(pF)		
2RK1400M-4	1400±20%	2800	3	300	500	1	1.0	-	None
2RK1600M-4	1600±20%	3000	3	300	500	1	1.0	-	None
2RK2000M-4	2000±20%	3800	3	300	1000	1	1.0	-	None
2RK2500M-4	2500±20%	4200	3	300	1000	1	1.0	1250VAC, 3s	None
2RK3000M-4	3000±20%	4500	3	300	1000	1	1.0	1500VAC, 3s	None
2RK3600M-4	3600±20%	4800	3	300	1000	1	1.0	1850VAC, 3s	None

Note: Size 4.0x5.6mm series

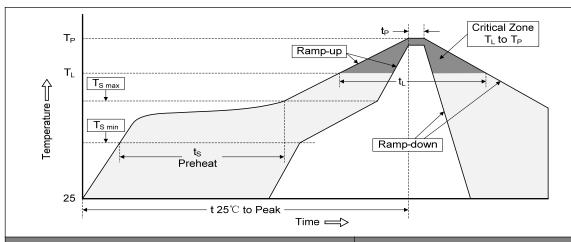
Electrical Ratings

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/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 20µs 10 0 Time 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

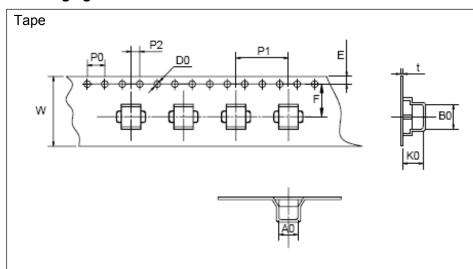
GAS DISCHARGE TUBS

Reflow Soldering

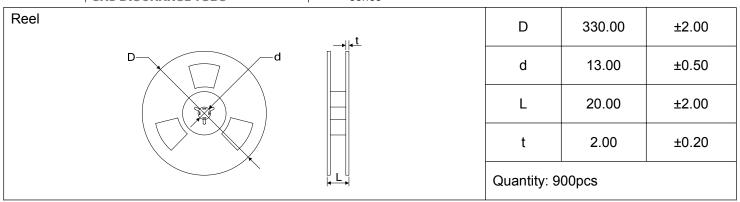


Profile Feature	Pb-Free Assembly			
Average ramp-up rate (T _L to T _P)	3℃/second max.			
Preheat				
-Temperature Min (T _{S min})	150℃			
-Temperature Max (T _{S max})	200 ℃			
-Time (min to max) (ts)	60-180 seconds			
T _{S max} to T _L				
-Ramp-up Rate	3°C/second max.			
Time maintained above:				
-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



Symbol	Dimension (mm)				
Syllibol	Spec.	Tolerance			
W	16.00	±0.20			
P0	4.00	±0.10			
P1	12.00	±0.20			
P2	2.00	±0.10			
D0	1.55	±0.05			
Е	1.75	±0.10			
F	7.50	±0.10			
A0	4.27	±0.10			
K0	5.20	±0.10			
В0	4.45	±0.10			
t	0.50	±0.10			



Note: Packaging for size 4.2x4.0mm series

Таре			Dimension (mm)			
P0 P1 S		Symbol	Spec.	Tolerance		
	t	W	16.00	±0.20		
1 + + + + + + + + + + + + + + + + + + +	_	Р	8.00	±0.20		
	~A	P0	4.00	±0.20		
		P1	2.00	±0.20		
		D	1.50	±0.10		
P A0 K0	-	Е	1.75	±0.10		
[]		F	7.50	±0.10		
		A0	4.30	±0.10		
		В0	5.80	±0.10		
	K0	4.30	±0.10			
		t	0.40	±0.10		
eel → ⊬ ^t		D	330.00	±2.00		
		d	13.00	±0.50		
		L	20.00	±2.00		
		t	2.00	±0.20		
		Quantity: 15	antity: 1500pcs			

Note: Packaging for size 4.0x5.6mm series

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