

Description

Gas discharge Tubes (GDT) are classical components for protecting the installations of the telecommunications. It is essential that IT and telecommunications systems -with their high-grade but sensitive electronic circuits - be protected by arresters. They are thus fitted at the input of the power supply system together with varistors and at the connection points to telecommunication lines. They have become equally indispensable for protecting base stations in mobile telephone systems as well as extensive cable television (CATV) networks with their repeaters and distribution systems.

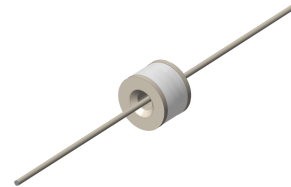
These protective components are also indispensable in other sectors, In AC power transmission systems, they are often used with current-limiting varistors, In customer premises equipment such as DSL modems, WLAN routers, TV sets and cable modems In air-conditioning equipment, the integral black-box concept offers graduated protection by combining arresters with varistors, PTC, diodes and inductor.

Features

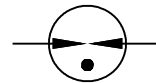
- u Non-Radioactive
- u RoHS compliant
- u High insulation resistance
- u Excellent response to fast rising transients
- u Ultra low capacitance
- u 10~20KA surge capability tested with 8/20µs pulse as defined by IEC 61000-4-5

Applications

- u Communication lines and equipment
- u CATV equipment
- u Test equipment
- u Data lines
- u Power supplies
- u Instrumentation circuits
- u Medical electronics
- u ADSL equipment
- u Telecom SLIC protection



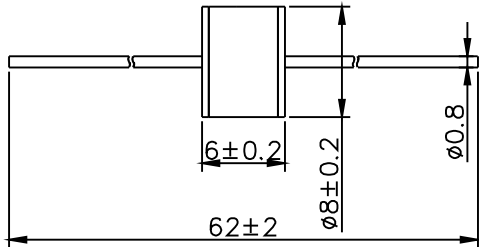
Schematic Symbol



Product Characteristics

Materials	Leaded Device: Nickel-plated with Tinned wires Surface Mount: Dull Tin-plated
Product Marking	10KA
Glow to Arc Transition Current	< 0.5 Amps
Glow Voltage	~60 Volts
Storage and Operational Temperature	-40 to +90°C
Weight	~1.5g
Climatic category (IEC 60068-1)	40/ 90/ 21

Dimensions (Unit: mm)



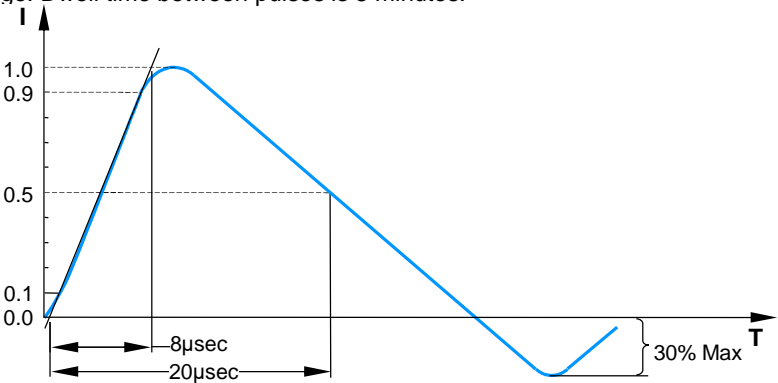
Electrical Characteristics

Part Number	DC Spark-over Voltage	Maximum Impulse Spark-over Voltage		Minimum Insulation Resistance	Maximum Capacitance	Arc Voltage	Service Life			
		@100V/μs	@1KV/μs				Nominal Impulse Discharge Current	Max Impulse Discharge Current	Nominal Impulse Discharge Current	Impulse Life
K2RM075L-8	75V±20%	<500V	<600V	1 GΩ (at 25V)	< 1.5pF	~15V	@3/20μs ±5 times	@3/20μs 1 time	@50Hz 1 Sec 10 times	@10/1000μs 300 times
K2RM090L-8	90V±20%	<500V	<600V	1 GΩ (at 50V)	< 1.5pF	~15V	10KA	20KA	10A	100A
K2RM150L-8	150V±20%	<500V	<600V	1 GΩ (at 50V)	< 1.5pF	~20V	10KA	20KA	10A	100A
K2RM230L-8	230V±20%	<600V	<700V	1 GΩ (at 100V)	< 1.5pF	~20V	10KA	20KA	10A	100A
K2RM250L-8	250V±20%	<700V	<800V	1 GΩ (at 100V)	< 1.5pF	~20V	10KA	20KA	10A	100A
K2RM300L-8	300V±20%	<800V	<900V	1 GΩ (at 100V)	< 1.5pF	~20V	10KA	20KA	10A	100A
K2RM350L-8	350V±20%	<800V	<900V	1 GΩ (at 100V)	< 1.5pF	~20V	10KA	20KA	10A	100A
K2RM420L-8	420V±20%	<900V	<1000V	1 GΩ (at 100V)	< 1.5pF	~20V	10KA	20KA	10A	100A
K2RM470L-8	470V±20%	<900V	<1000V	1 GΩ (at 100V)	< 1.5pF	~20V	10KA	20KA	10A	100A
K2RM600L-8	600V±20%	< 1100V	<1200V	1 GΩ (at 100V)	< 1.5pF	~20V	10KA	20KA	10A	100A
K2RM800L-8	800V±20%	< 1200V	<1400V	1 GΩ (at 100V)	< 1.5pF	~20V	10KA	20KA	10A	100A

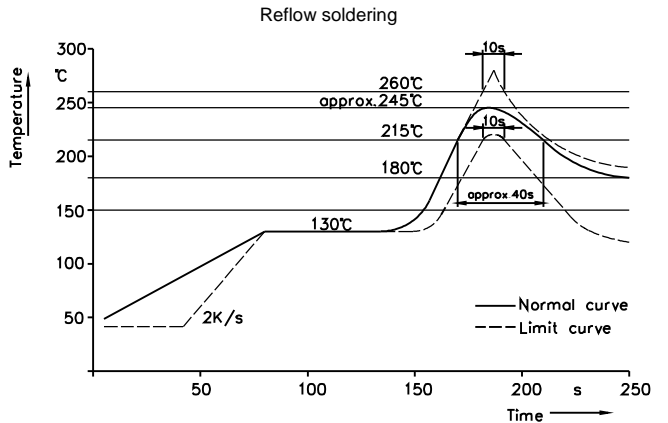
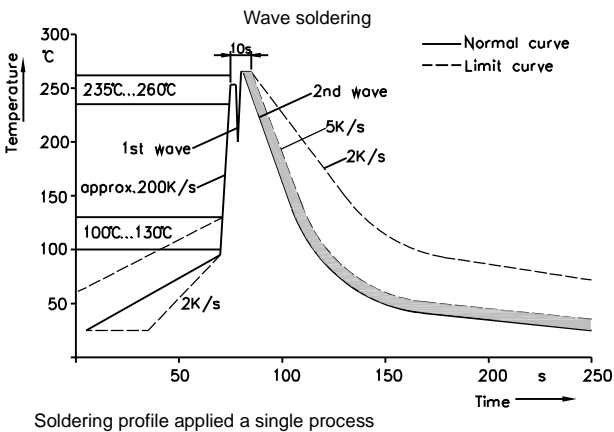
Notes:

- 1). Terms in accordance with ITU-T K.12 and GB/T 9043-2008
- 2). At delivery AQL 0.65 level II, DIN ISO 2859

Electrical Rating

Item	Test Condition / Description	Requirement
DC Spark-over Voltage	The voltage is measured with a slowly rate of rise $dv / dt=100V/s$	To meet the specified value
Impulse Spark-over Voltage	The maximum impulse spark-over voltage is measured with a rise time of $dv / dt=100V/\mu s$ or $1KV/\mu s$	
Insulation Resistance	The resistance of gas tube shall be measured each terminal each other terminal, please see above spec.	
Capacitance	The capacitance of gas tube shall be measured each terminal to each other terminal. Test frequency :1MHz	
Nominal Impulse Discharge Current	The maximum current applying a waveform of 8/20 μs that can be applied across the terminals of the gas tube. One hour after the test is completed, re-testing of the DC spark-over voltage does not exceed $\pm 30\%$ of the nominal DC spark-over voltage. Dwell time between pulses is 3 minutes. 	
Nominal Alternating Discharge Current	Rated RMS value of AC current at 50Hz, 1 sec. 10 times. Intervals: 3min. The DC spark-over voltage does not exceed $\pm 30\%$ of the nominal DC spark-over voltage. $IR > 10^8\text{ohms}$.	

Recommended Soldering Profile



Soldering Parameters - Hand Soldering

Solder Iron Temperature: 350°C $\pm 5^\circ\text{C}$
 Heating Time: 5 seconds max.

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