

GDT20KA2R75-L8060 Thru GDT20KA2R800-L8060

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GDT20KA2R75-L8060 Thru GDT20KA2R800-L8060

Axial Lead Gas Discharge
Tube Surge 20KA (8/20 μ s)

Feature

- Non-Radioactive.
- High insulation resistance.
- Excellent response to fast rising transients.
- Ultra-low capacitance.
- 10~20KA surge capability tested with 8/20 μ s pulse as defined by IEC 61000-4-5.
- Lead-free parts meet RoHS requirements.
- Suffix "-H" indicates Halogen free parts, ex. GDT20KA2R75-L8060-H.

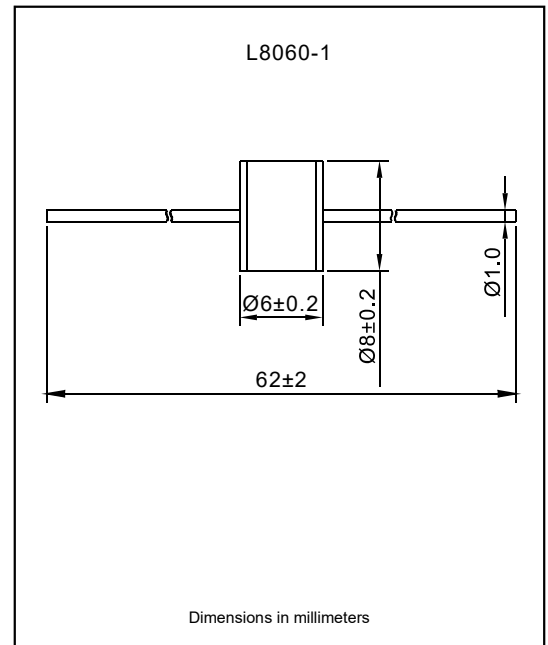
Applications

- Communication lines, equipment, CATV equipment and test equipment.
- Data lines, power supplies and instrumentation circuits.
- Medical electronics, ADSL equipment and telecom SLIC protection.

Mechanical data

- Case : L8060-1.
- Mounting Position : Any.

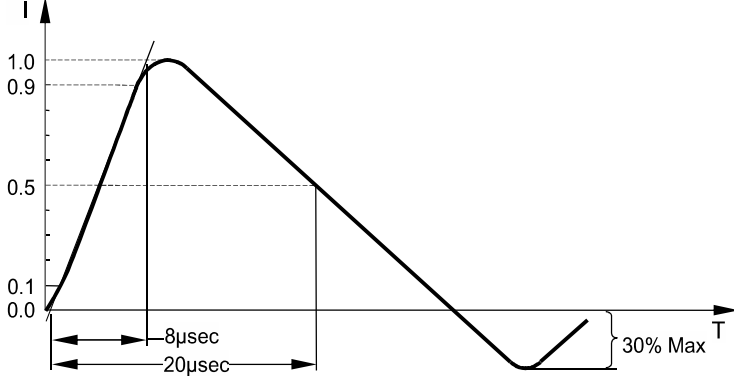
Package outline



Maximum rating and electrical characteristics

Parameter	Condition	GDT20 KA2R75 -L8060	GDT20 KA2R90 -L8060	GDT20 KA2R15 0-L8060	GDT20 KA2R23 0-L8060	GDT20 KA2R25 0-L8060	GDT20 KA2R30 0-L8060	GDT20 KA2R35 0-L8060	GDT20 KA2R42 0-L8060	GDT20 KA2R47 0-L8060	GDT20 KA2R60 0-L8060	GDT20 KA2R80 0-L8060	Unit
DC Spark-over voltage	100V/s, ±20%	75	90	150	230	250	300	350	420	470	600	800	V
Maximum Impulse spark-over voltage	100V/ μ s	500	500	500	600	700	800	800	900	900	1100	1200	V
	1KV/ μ s	600	600	600	700	800	900	900	1000	1000	1200	1400	
Minimum insulation resistance		25	50	50	100	100	100	100	100	100	100	100	V
		1	1	1	1	1	1	1	1	1	1	1	G Ω
Maximum capacitance	1MHz	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	pF
AC Voltage	1A	15	15	20	20	20	20	20	20	20	20	20	V
Nominal impulse discharge current	8/20 μ s, $\pm$ 5 times	20	20	20	20	20	20	20	20	20	20	20	KA
Max impulse discharge current	8/20 μ s, 1 times	25	25	25	25	25	25	25	25	25	25	25	KA
Nominal impulse discharge current	50Hz, 1sec, 10times	20	20	20	20	20	20	20	20	20	20	20	A
Impulse life	10/1000 μ s, 300 times	200	200	200	200	200	200	200	200	200	200	200	A

GDT20KA2R75-L8060 Thru GDT20KA2R800-L8060**Electrical rating**

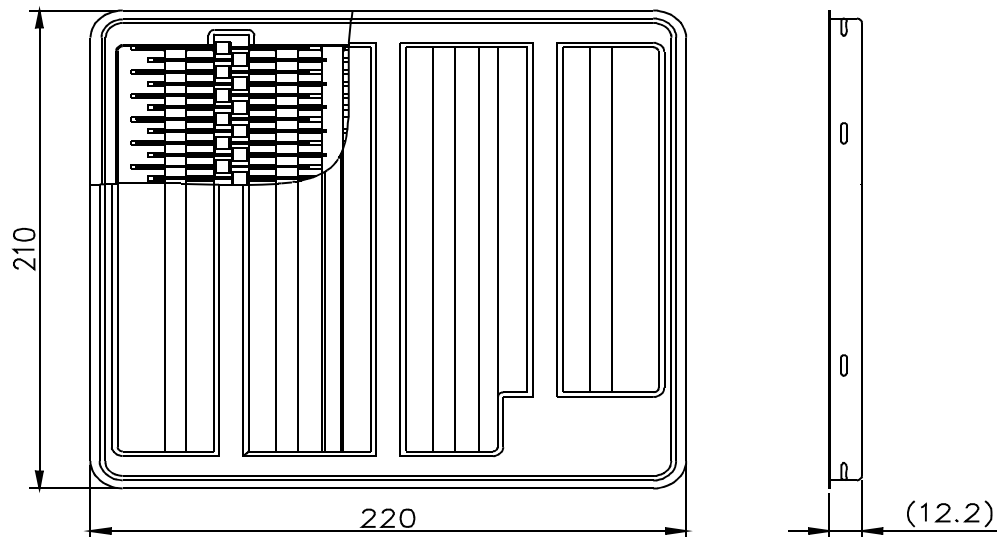
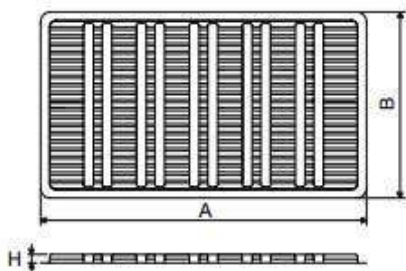
Item	Test Condition / Description	Requirement
DC Spark-over Voltage	The voltage is measured with a slowly rate of rise $dv / dt = 100V/s$	To meet the specified value
Impulse Spark-over Voltage	The maximum impulse spark-over voltage is measured with a rise time of $dv / dt = 100V/\mu s$ or $1KV/\mu s$	
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 8/20μs 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. $IR > 10^8 ohms$.	

Marking

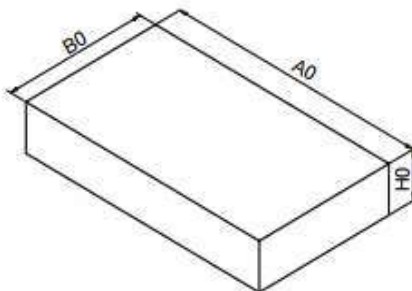
Type number	Marking code
GDT20KA2R75-L8060	75H
GDT20KA2R90-L8060	90H
GDT20KA2R150-L8060	150H
GDT20KA2R230-L8060	230H
GDT20KA2R250-L8060	250H
GDT20KA2R300-L8060	300H
GDT20KA2R350-L8060	350H
GDT20KA2R420-L8060	420H
GDT20KA2R470-L8060	470H
GDT20KA2R600-L8060	600H
GDT20KA2R800-L8060	800H

GDT20KA2R75-L8060 Thru GDT20KA2R800-L8060**Packing information**

Part Number	Description	Quantity
GDT20KA2R75-L8060 Thru GDT20KA2R800-L8060	100PCS per Tray, 10 Trays / Inner Carton	1000 PCS

**Axial packing (Bulk)****Skin packing**

Symbol	Dimension (cm)	
	Spec.	Tolerance
A	21.0	±0.5
B	22.0	±0.5
H	1.0	±0.5
Quantity: 100pcs		

Inner box

Symbol	Dimension (cm)	
	Spec.	Tolerance
A0	23.0	±0.5
B0	22.0	±0.5
H0	13.0	±0.5
Quantity: 1000pcs		

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Recommended soldering profile

