

Without Wire Gas Discharge Tube Surge Protector

Formosa MS

GDT10KA2R75-T8060 Thru GDT10KA2R800-T8060

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Without Wire Gas Discharge Tube Surge
10KA (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. GDT10KA2R75-T8060-H.

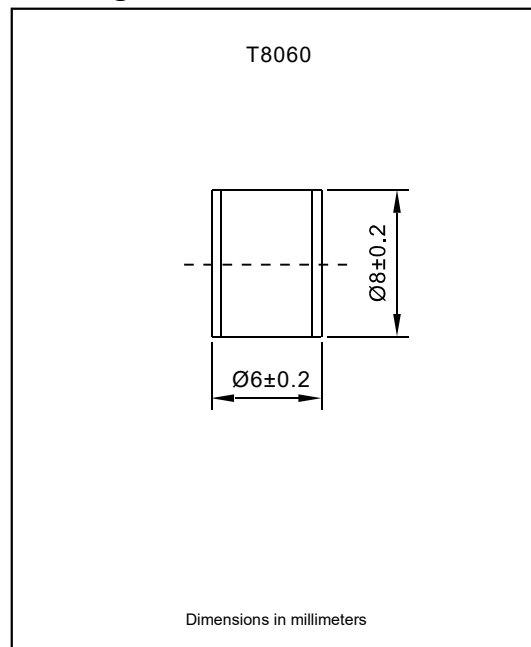
Applications

- 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 : T8060.
- Mounting Position : Any.

Package outline

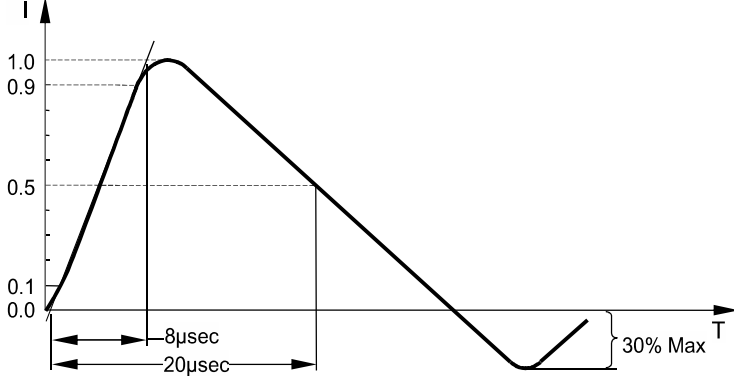


Maximum rating and electrical characteristics

Parameter	Condition	GDT10 KA2R75 -T8060	GDT10 KA2R90 -T8060	GDT10 KA2R15 0-T8060	GDT10 KA2R23 0-T8060	GDT10 KA2R25 0-T8060	GDT10 KA2R30 0-T8060	GDT10 KA2R35 0-T8060	GDT10 KA2R42 0-T8060	GDT10 KA2R47 0-T8060	GDT10 KA2R60 0-T8060	GDT10 KA2R80 0-T8060	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	10	10	10	10	10	10	10	10	10	10	10	KA
Max impulse discharge current	8/20 μ s, 1 times	20	20	20	20	20	20	20	20	20	20	20	KA
Nominal impulse discharge current	50Hz, 1sec, 10times	10	10	10	10	10	10	10	10	10	10	10	A
Impulse life	10/1000 μ s, 300 times	100	100	100	100	100	100	100	100	100	100	100	A

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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

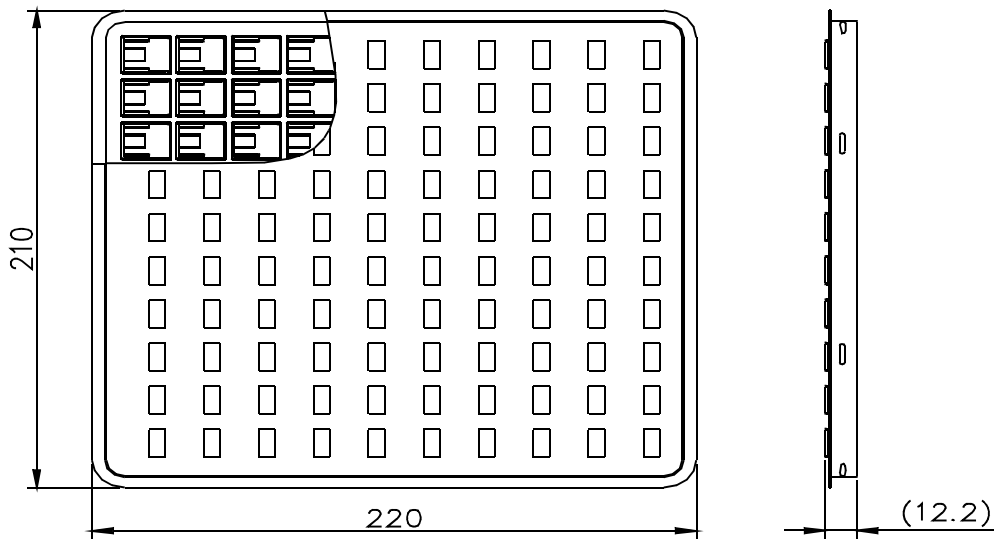
Type number	Marking code
GDT10KA2R75-T8060	75M
GDT10KA2R90-T8060	90M
GDT10KA2R150-T8060	150M
GDT10KA2R230-T8060	230M
GDT10KA2R250-T8060	250M
GDT10KA2R300-T8060	300M
GDT10KA2R350-T8060	350M
GDT10KA2R420-T8060	420M
GDT10KA2R470-T8060	470M
GDT10KA2R600-T8060	600M
GDT10KA2R800-T8060	800M

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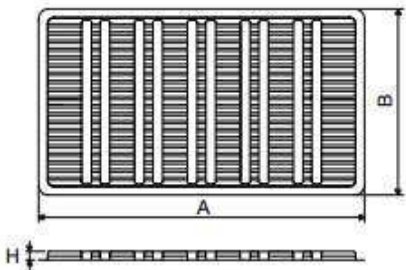
Packing information

Part Number	Description	Quantity
GDT10KA2R75-T8060 Thru GDT10KA2R800-T8060	100PCS per Tray, 10 Trays / Inner Carton	1000 PCS



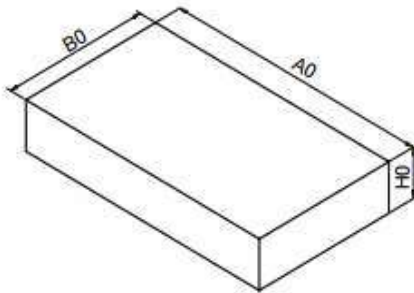
Axial packing (Bulk)

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

