# Gas Discharge Tube in SMD package

CG2RxxxL-M5

## Description

GDTs are designed compliant with industrial specification of ITU-T K.12 2000 and national standards of GB/T 9043 2002,could meet over voltage transients protection requirements of lightning strikes, power cross and induction in both telecommunication equipments and power lines.

## Features

- Very fast response time
- Suitable for direct strikes
- Stable performance over life
- Very low capacitance
- High insulation resistance

## Mechanical Data

- **Case:** φ5*5mm(plastic package).
  Lead free; RoHS compliant
- **Molding Compound Flammability Rating:**
  UL 94 V-0
- **Terminals:**
  High temperature soldering guaranteed:
  260 °C/10 sec. at terminals

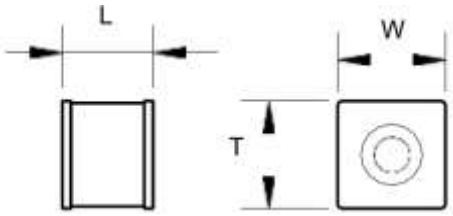
## Applications

- Power Supply
- MDF Module
- SLICs
- Telephone
- Powerstrip
- Transformers

## Electrical Characteristics(25 °C)

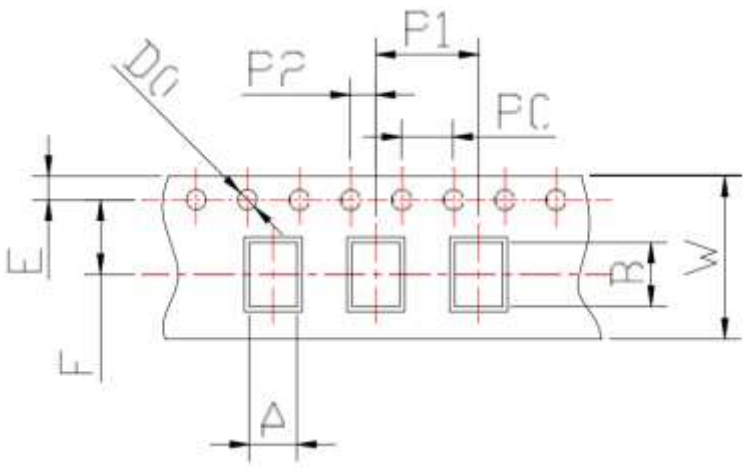
| Part No. | DC Breakdown Voltage 100/s | Impulse Discharge Current | Impulse Withstanding Voltage Capacity | Impulse Spark-over Voltage 1kv/us | Insulation Resistance | Capacitance (1MHz 1V) |
|---|---|---|---|---|---|---|
| CG2R075L-M5 | 75V 55~95 | 8/20 us 5000A | 10/700 us 6kV Positive/Negative 5 Times | > = 650v | 1GΩ Min (DC 100V) | 1 pFMax. |
| CG2R090L-M5 | 90V 63~117 | | | > = 650v | | |
| CG2R121L-M5 | 120V 84~156 | | | > = 650v | | |
| CG2R151L-M5 | 150V 120~180 | | | > = 650v | | |
| CG2R201L-M5 | 200V 160~240 | | | > = 650v | | |
| CG2R231L-M5 | 230V 184~276 | | | > = 700v | | |
| CG2R301L-M5 | 300V 240~360 | | | > = 700v | | |
| CG2R351L-M5 | 350V 280~420 | | | > = 750v | | |
| CG2R401L-M5 | 400V 320~480 | | | >=800v >=850v | 1GΩ Min (DC250V) | |
| CG2R421L-M5 | 420V 336~504 | | | > = 850v | | |
| CG2R471L-M5 | 470V 376~564 | | | > = 900v | | |
| CG2R501L-M5 | 500V 400~600 | | | > = 900v | | |
| CG2R601L-M5 | 600V 480~720 | | | > = 900v | | |
| CG2R801L-M5 | 800V 640~960 | | | > = 1100v | | |

## Package Dimensions




| | |
|---|---|
| W | 5.0±0.2mm |
| T | 5.0±0.2mm |
| L | 4.2±0.3mm |

## Taping Dimensions




| Item | Spec |
|---|---|
| A | 5.3±0.20 |
| B | 4.5±0.20 |
| D0 | Φ1.50±0.10 |
| E | 1.75±0.10 |
| F | 5.50±0.10 |
| P0 | 4.0±0.10 |
| P1 | 8.0±0.10 |
| P2 | 2.0±0.10 |
| W | 12.00±0.30 |

unit :mm

## Ordering information

| Order code | Package | Packaging option | Base quantity | Packaging specification |
|---|---|---|---|---|
| CG2RxxxL-M5 Series | Φ5 .0X5.0 | Tape and reel | 1000pcs / reel | EIA STD RS-481 |