

Gas Discharge Tube in SMD package

Description

GDTs of RDSEMI 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:** $\phi 5 \times 5$ mm(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



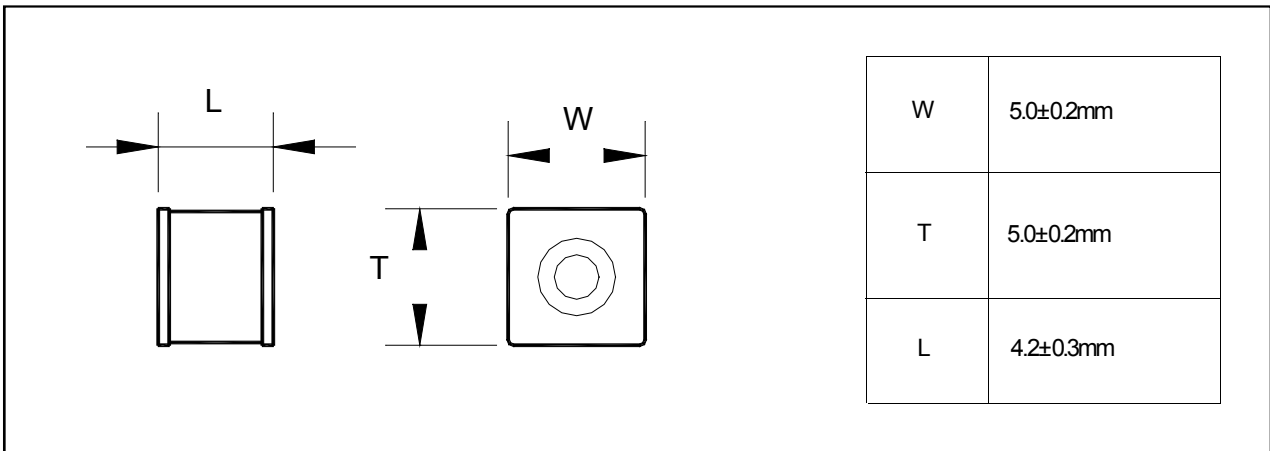
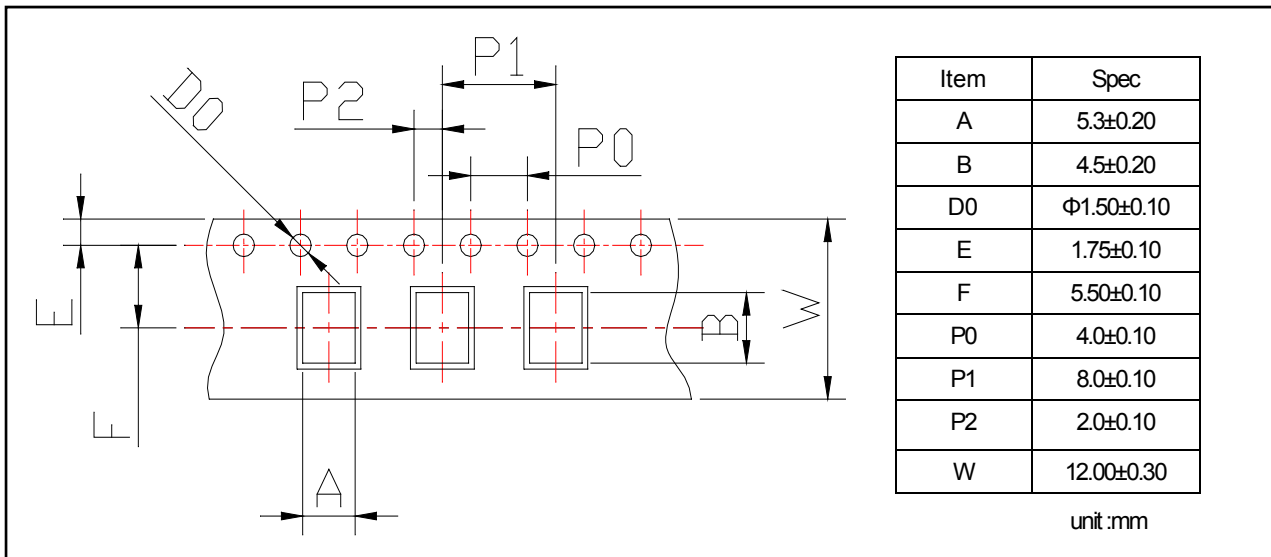
Application

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

Electrical specifications (@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 pF Max.
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 (DC 250V)	
CG2R421L-M5	420V 336~504			>= 850v		
CG2R471L-M5	470V 376~564			>= 900v		
CG2R501L-M5	500V 400~600			>= 900v		
CG2R601L-M5	600V 480~720			>= 900v		
		>= 900v				

Insulation Resistances measuring voltages for 75V GDTs is 25V;for 90V and 150V GDTs is 50VDC, Above 150V GDTs is 100VDC.

Package Dimensions

Taping Dimensions

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

Revision history

Date	Revision	Changes
23-May-2020	1.0	Initial release

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