GDTN2RS5B-XX

Gas Discharge Tube

Features



- 2-electrode arrester
- Very small size
- Extremely fast response time
- Stable performance over life
- Extremely low capacitance (<1.0pF)
- High insulation resistance
- Moisture sensitivity level: Level 1

Application

- Modem
- Splitter
- Base stations
- PCI cards
- Application with limited space

Electrical specifications

Part number	DC Spark-over Voltage 1) 2)	Maximum Impulse Spark-over Voltage	Service Life 3)	Insulation resistance	Capacitance	Marking Code
		1kv/μs	8/20μs 10times	@ 100V_{DC}	@ 1 MHz	
	(V)	(V)	(KA)	(GΩ）	（pF)	
GDTN2RS5B-75	75±25%	650	5KA	> 1@50V_{DC}	< 1	None
GDTN2RS5B-90	90±25%	650	5KA	> 1@50V_{DC}	< 1	None
GDTN2RS5B-150	150±20%	650	5KA	> 1	< 1	None
GDTN2RS5B-230	230±20%	700	5KA	> 1	< 1	None
GDTN2RS5B-350	350±20%	800	5KA	> 1	< 1	None
GDTN2RS5B-470	470±20%	950	5KA	> 1	< 1	None
GDTN2RS5B-600	600±20%	1050	5KA	> 1	< 1	None
GDTN2RS5B-800	800±20%	1350	5KA	> 1	< 1	None

1) At delivery AQL 0.65 level II, DIN ISO 2859.

2) In ionized mode.

3) Tests according to ITU-T Rec. K. 12 and UL 497B.

Terms and current waveforms in accordance with: ITU-T Rec. K.12; IEC 61643-21 and DIN 57845/VDE0845.

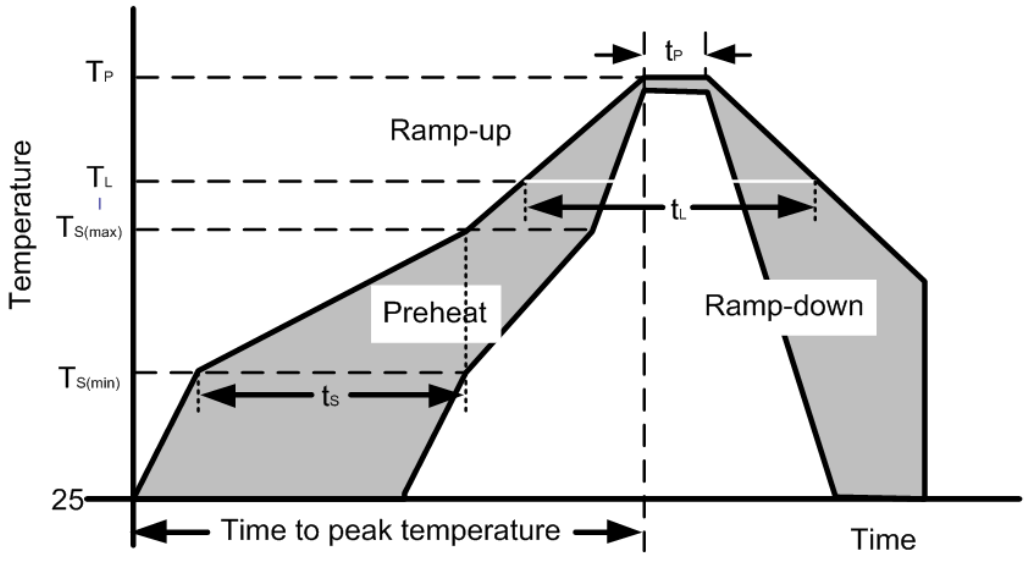
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Thermal Resistances

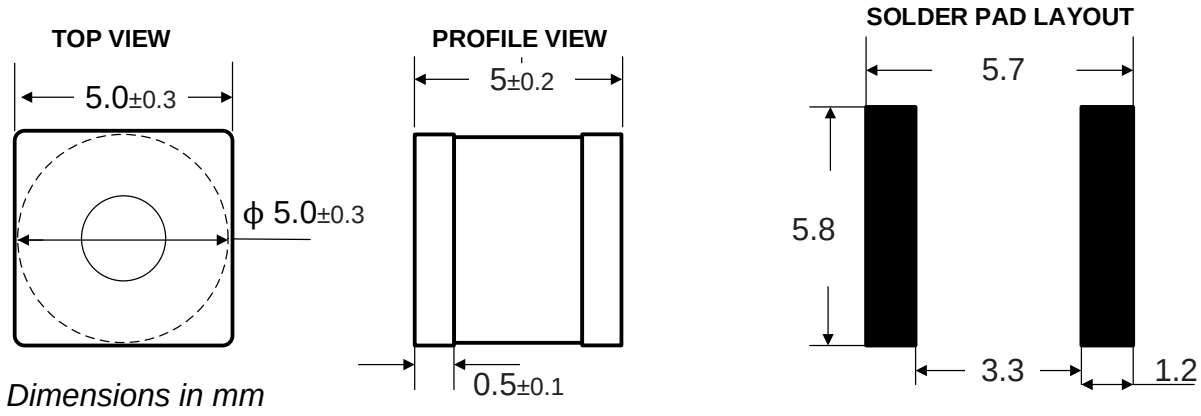
Parameter	Value	Unit
Storage & Operating temperature range	-40 to +85	°C

Soldering Parameters

Reflow Condition		Pb – Free assembly
Pre Heat	Temperature Min ($T_{s(min)}$)	150°C
	Temperature Max ($T_{s(max)}$)	200°C
	Time (min to max) (ts)	60 – 190 secs
Average ramp up rate (Liquidus Temp) (T_L) to peak		5°C/second max
$T_{S(max)}$ to T_L——Ramp-up Rate		5°C/second max
Reflow	Temperature (T_L) (Liquidus)	217°C
	Temperature (t_L)	60 – 150 seconds
Peak Temperature (T_P)		$260^{+0/-5}$ °C
Time within actual peak Temperature (t_p)		20 – 40 seconds
Ramp-down Rate		5°C/second max
Time 25°C to peak Temperature (T_P)		8 minutes Max.
Do not exceed		260°C



Dimensional drawing



Dimensions in mm

Cautions and warnings

- Surge arresters must not be operated directly in power supply networks.
- Surge arresters may become hot in case of longer periods of current stress (danger of burning).
- Surge arresters may be used only within their specified values. In case of overload, the headcontacts may fail or the component may be destroyed.
- Damaged surge arresters must not be re-used.

Part Numbering System

GDT N 2R S5B- XX

- XX: DC Spark-over Voltage of **XX**V (at 100V/s)
- S5B: **Square** Ø5.0×T5.0
- 2R: **2** Electrodes
- N: Lead Configuration **N=No Leads**
- GDT: **G**as **D**ischarge **T**ubes

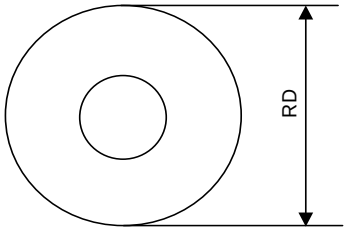
Package Information

Tape and Reel: 1000 Pcs/Reel .

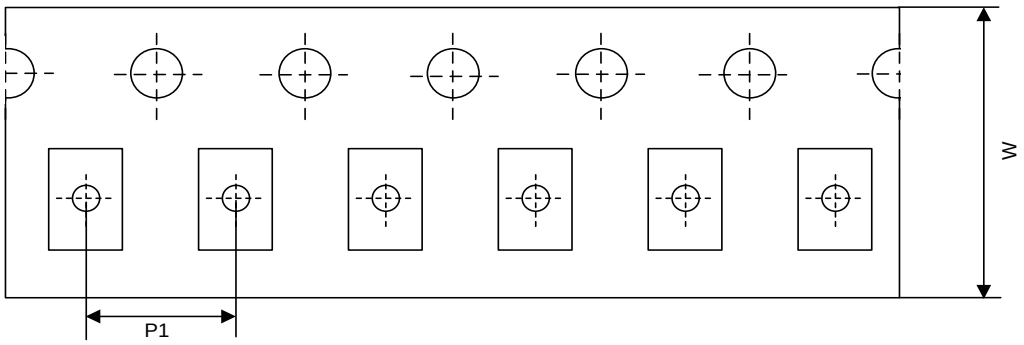
Tape and Reel Information

RD	Reel Dimensions	13 inch
W	Overall width of the carrier tape	16 mm
P1	Pitch between successive cavity centers	12 mm

Reel Dimensions Schematic diagram



Tape Dimensions Schematic diagram



Quadrant Assignments for PIN1 Orientation in tape

Contact Information

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