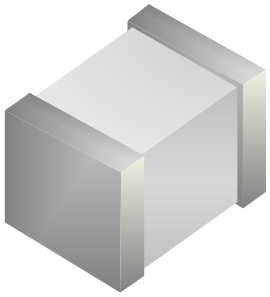
GDTN2RS3-1000HP

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	Insulation resistance	Capacitance
		1kv/μs	8/20μs 10times	@ 100V_{DC}	@ 1 MHz
	(V)	(V)	(KA)	(GΩ）	（pF)
GDTN2RS3-1000HP	1000±20%	2000	2KA	> 1	< 1

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

2) In ionized mode.

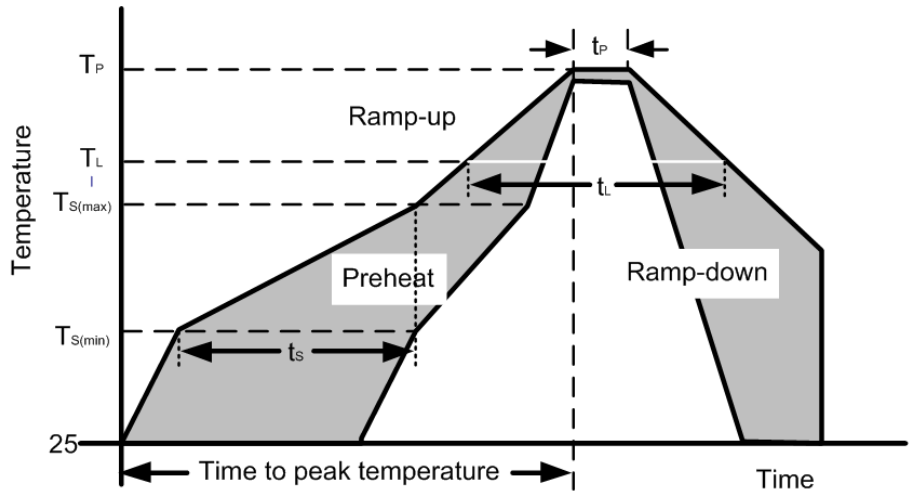
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Thermal Resistances

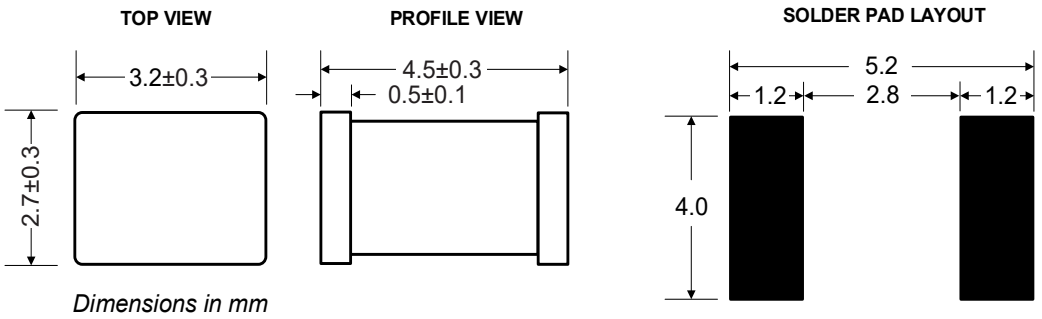
Parameter	Value	Unit
Storage & Operating temperature range	-40 to +125	°C

Reflow Profile

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 S3- XX HP

- HP: Special demand
- XX: DC Spark-over Voltage of **XX**V (at 100V/s)
- S3: **Size**
- 2R: **2** Electrodes
- N: Lead Configuration **N=No Leads**
- GDT: **G**as **D**ischarge **T**ubes

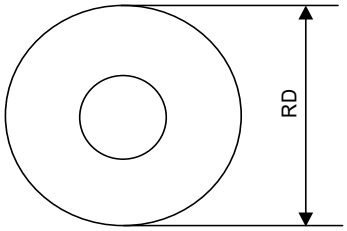
Package Information

Tape and Reel: 2500 pcs/reel.

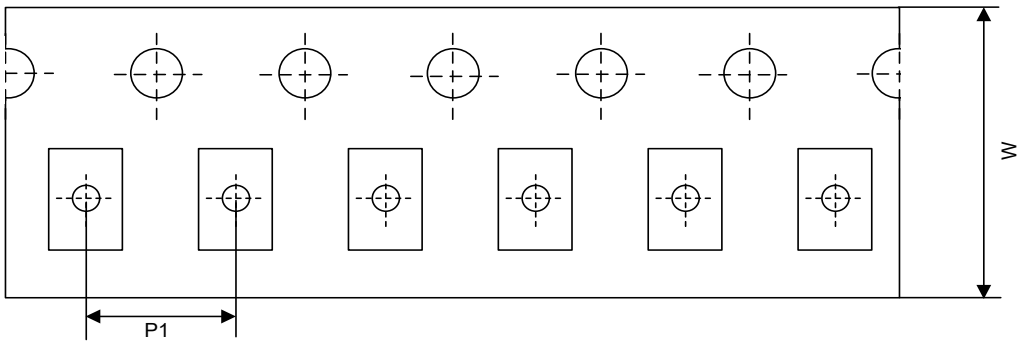
Tape and Reel Information

RD	Reel Dimensions	13 inch
W	Overall width of the carrier tape	12 mm
P1	Pitch between successive cavity centers	8 mm

Reel Dimensions Schematic diagram



Tape Dimensions Schematic diagram



Quadrant Assignments for PIN1 Orientation in tape

Contact Information

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Product Specification Statement

The product specification aims to provide users with a reference regarding various product parameters, performance, and usage. It presents certain aspects of the product's performance in graphical form and is intended solely for users to select product and make product comparisons, enabling users to better understand and evaluate the characteristics and advantages of the product. It does not constitute any commitment, warranty, or guarantee.

The product parameters described in the product specification are numerical values, characteristics, and functions obtained through actual testing or theoretical calculations of the product in an independent or ideal state. Due to the complexity of product applications and variations in test conditions and equipment, there may be slight fluctuations in parameter test values. WAYON shall not guarantee that the actual performance of the product when installed in the customer's system or equipment will be entirely consistent with the product specification, especially concerning dynamic parameters. It is recommended that users consult with professionals for product selection and system design. Users should also thoroughly validate and assess whether the actual parameters and performance when installed in their respective systems or equipment meet their requirements or expectations. Additionally, users should exercise caution in verifying product compatibility issues, and WAYON assumes no responsibility for the application of the product.

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Users are advised to pay attention to the parameter limit values specified in the product specification and maintain a certain margin in design or application to ensure that the product does not exceed the parameter limit values defined in the product specification. This precaution should be taken to avoid exceeding one or more of the limit values, which may result in permanent irreversible damage to the product, ultimately affecting the quality and reliability of the system or equipment.

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