GDTN2RS5-XXHP

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
- RoHS & HF Compliant



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 10 times	@ 100V_{DC}	@ 1 MHz
	(V)	(V)	(KA)	(GΩ）	（pF)
GDTN2RS5-75HP	75±30%	600	10KA	> 1	< 1.0
GDTN2RS5-90HP	90±30%	600	10KA	> 1	< 1.0
GDTN2RS5-150HP	150±30%	750	10KA	> 1	< 1.0

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

2) In ionized mode.

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

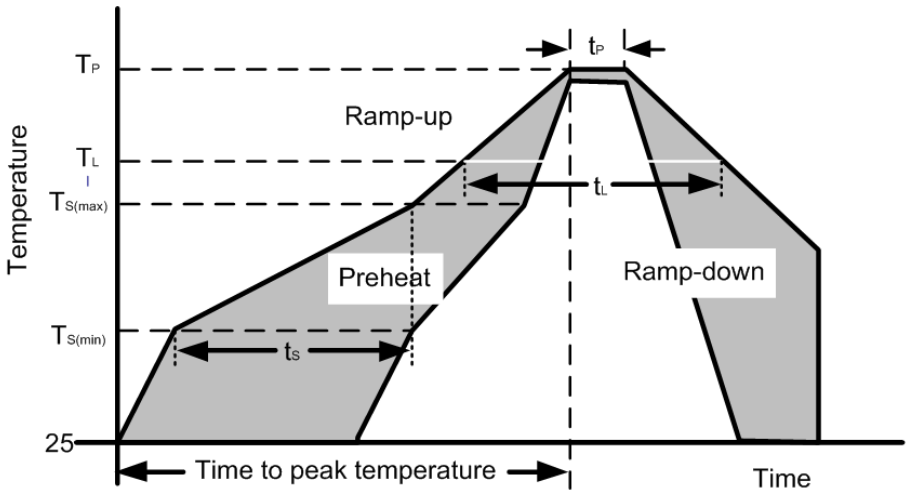
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Thermal Resistances

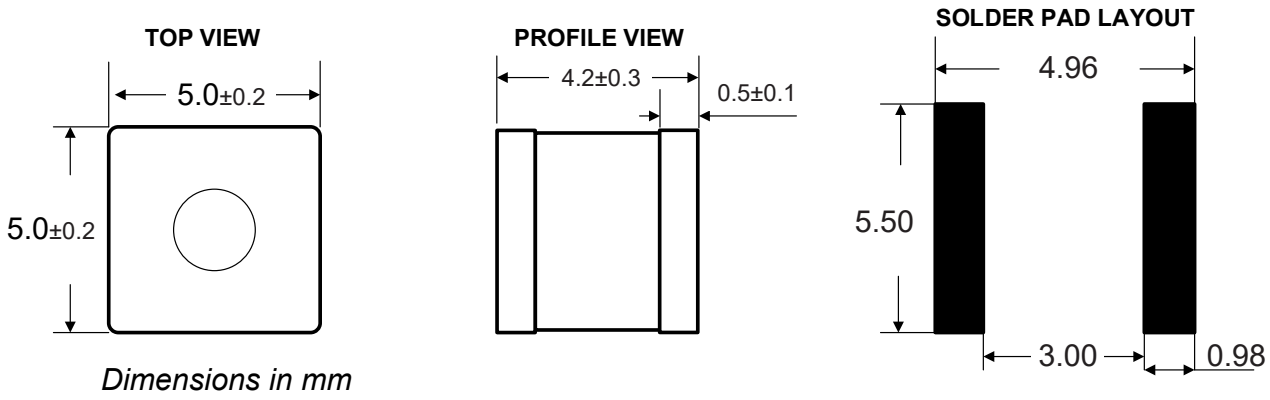
Parameter	Value	Unit
Storage & Operating temperature range	-40 to +125	°C

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 – 180 secs
$T_{S(max)}$ to T_L——Ramp-up Rate		3°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		6°C/second max
Time 25°C to peak Temperature (T_P)		8 minutes Max.
Do not exceed		260°C



Dimensional drawing

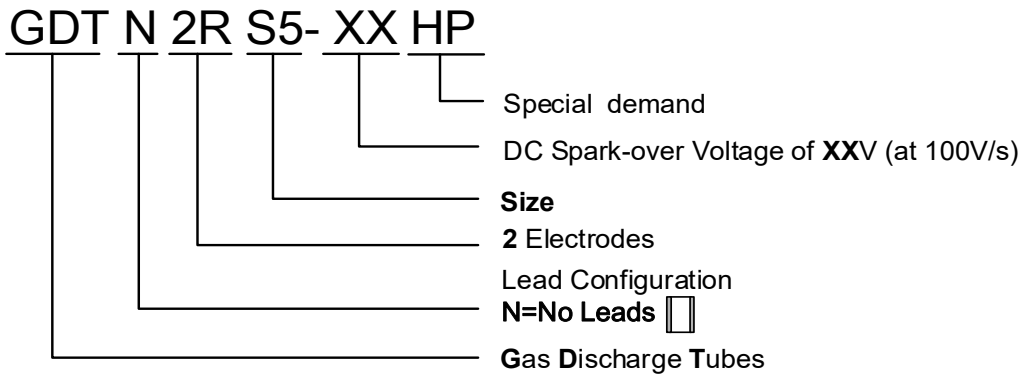


Dimensions in mm

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



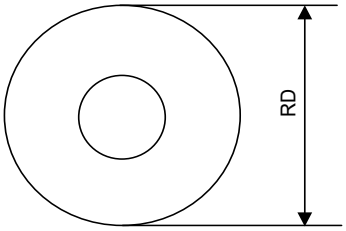
Package Information

Tape and Reel: 1000 Pcs/Reel .

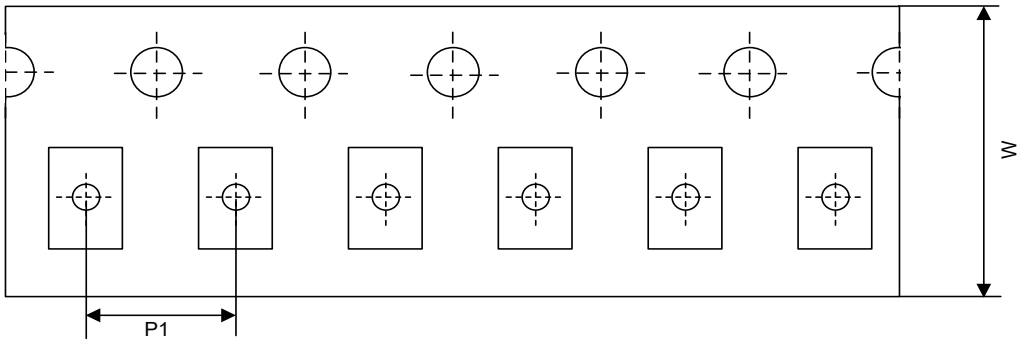
Tape and Reel Information

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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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.

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