

## Gas Discharge Tube

### Features

- 2-electrode arrester
- Very small size
- Extremely fast response time
- Stable performance over life
- Extremely low capacitance (<1.5pF)
- High insulation resistance



### Application

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

### Electrical specifications

Part number	DC Spark-over Voltage <sub>1) 2)</sub>	Maximum Impulse Spark-over Voltage	Service Life <sub>3)</sub>	Insulation resistance	Capacitance	Marking Code
		1kv/ $\mu$ s	8/20 $\mu$ s 10times	@ 100V <sub>DC</sub>	@ 1 MHz	
	(V)	(V)	(KA)	(G $\Omega$ )	(pF)	
GDTN2RS8A-75	75 $\pm$ 30%	600	20KA	> 1@50V <sub>DC</sub>	< 1.5	2R 75
GDTN2RS8A-90	90 $\pm$ 30%	600	20KA	> 1@50V <sub>DC</sub>	< 1.5	2R 90
GDTN2RS8A-150	150 $\pm$ 20%	600	20KA	> 1	< 1.5	2R 150
GDTN2RS8A-230	230 $\pm$ 20%	700	20KA	> 1	< 1.5	2R 230
GDTN2RS8A-300	300 $\pm$ 20%	900	20KA	> 1	< 1.5	2R 300
GDTN2RS8A-350	350 $\pm$ 20%	950	20KA	> 1	< 1.5	2R 350
GDTN2RS8A-400	400 $\pm$ 20%	1000	20KA	> 1	< 1.5	2R 400
GDTN2RS8A-470	470 $\pm$ 20%	1100	20KA	> 1	< 1.5	2R 470
GDTN2RS8A-600	600 $\pm$ 20%	1300	20KA	> 1	< 1.5	2R 600

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.

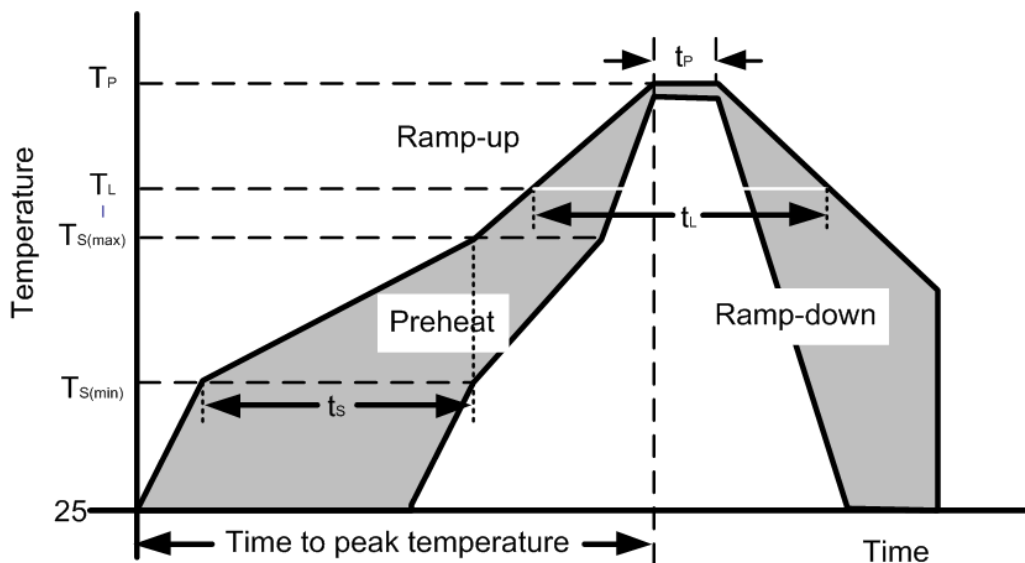
Terms and current waveforms in accordance with: ITU-T Rec. K.12; IEC 61643-21 and DIN 57845/VDE0845.

### Thermal Resistances

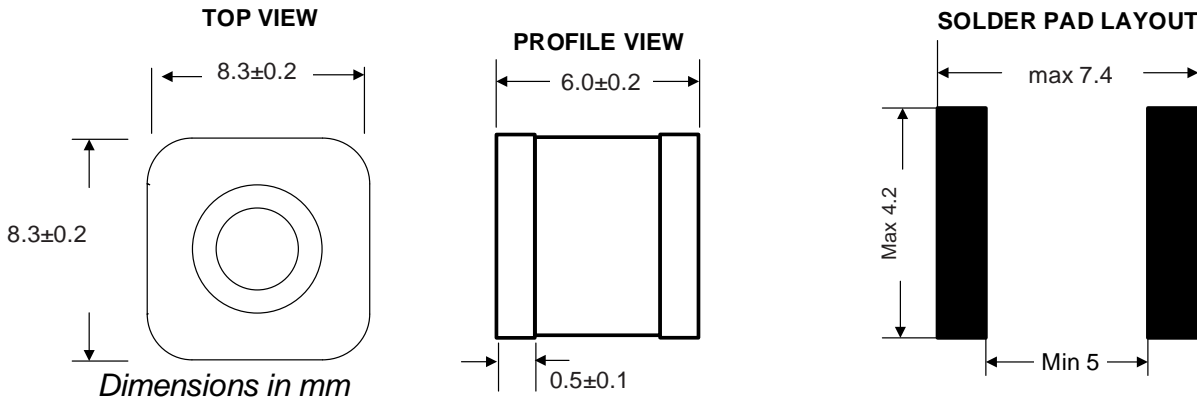
Parameter	Value	Unit
Storage & Operating temperature range	-40 to +85	°C

### 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) ( $t_s$ )	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 <sup>+0/-5</sup> °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

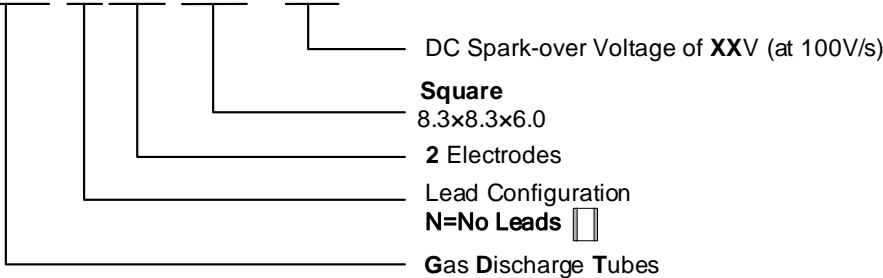


### Cautions and warnings

- 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 S8A - XX



### Package Information

Tape and Reel: 400 Pcs/Reel .

### Contact Information

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*Specifications are subject to change without notice.  
 The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.  
 Users should verify actual device performance in their specific applications.*