

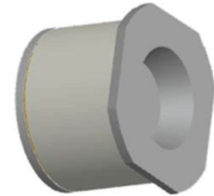


GDTN2RS8-XX

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
- 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/ μ s	8/20 μ s 10times	@ 100V _{DC}	@ 1 MHz	
	(V)	(V)	(KA)	(G Ω)	(pF)	
GDTN2RS8-75	75 \pm 25%	650	20KA	> 1@50V _{DC}	< 1.5	None
GDTN2RS8-90	90 \pm 25%	650	20KA	> 1@50V _{DC}	< 1.5	None
GDTN2RS8-150	150 \pm 20%	750	20KA	> 1	< 1.5	None
GDTN2RS8-230	230 \pm 20%	800	20KA	> 1	< 1.5	None
GDTN2RS8-350	350 \pm 20%	850	20KA	> 1	< 1.5	None
GDTN2RS8-420	420 \pm 20%	950	20KA	> 1	< 1.5	None
GDTN2RS8-470	470 \pm 20%	950	20KA	> 1	< 1.5	None
GDTN2RS8-600	600 \pm 20%	1050	20KA	> 1	< 1.5	None
GDTN2RS8-800	800 \pm 20%	1600	20KA	> 1	< 1.5	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.

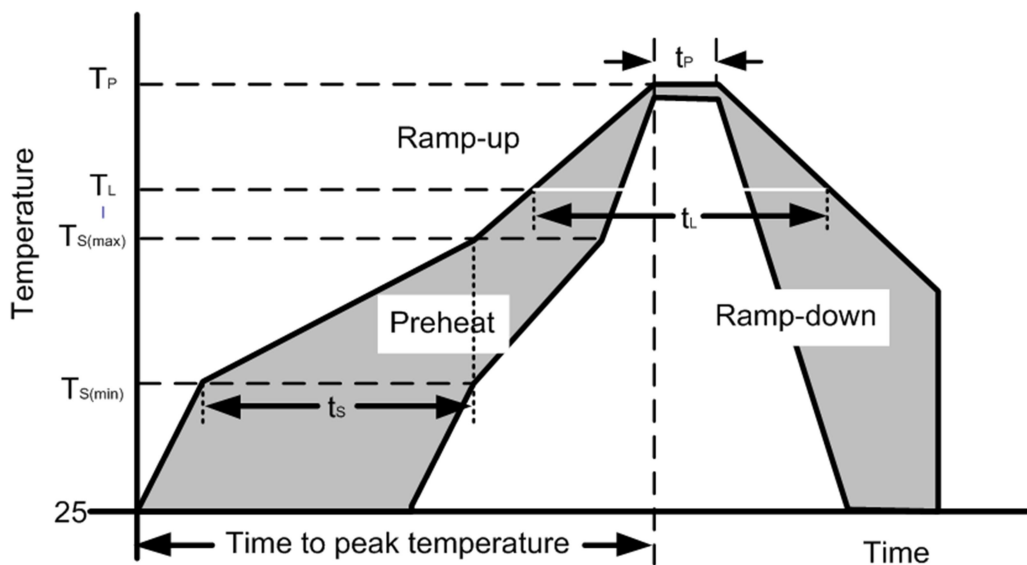
Terms and current waveforms in accordance with: ITU-T Rec. K.12; IEC 61643-21 and DIN 57845/VDE0845.

Thermal Resistances

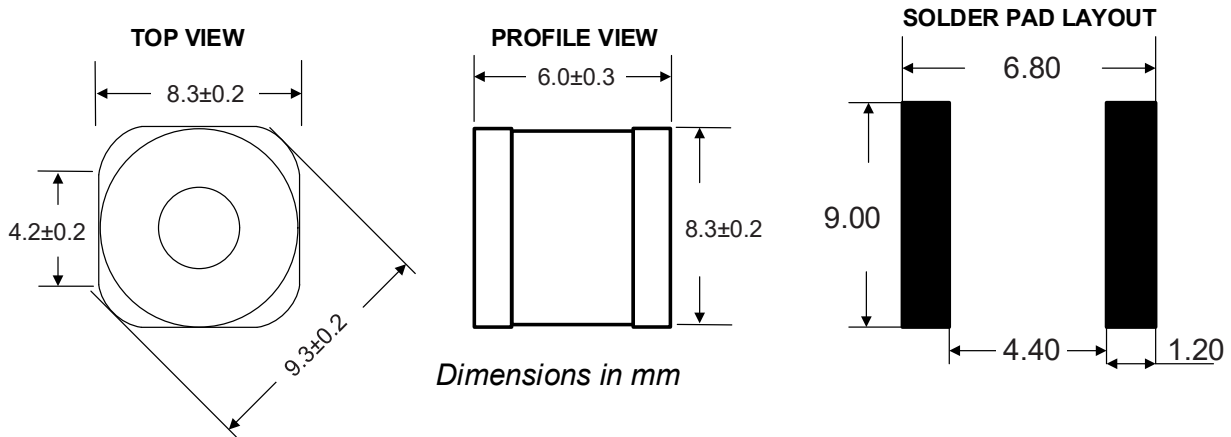
Symbol	Parameter	Value	Unit
Ts & Tj	Storage & Operating temperature range	-40 to +85	°C

Soldering Parameters

Reflow Condition		
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 ^{+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



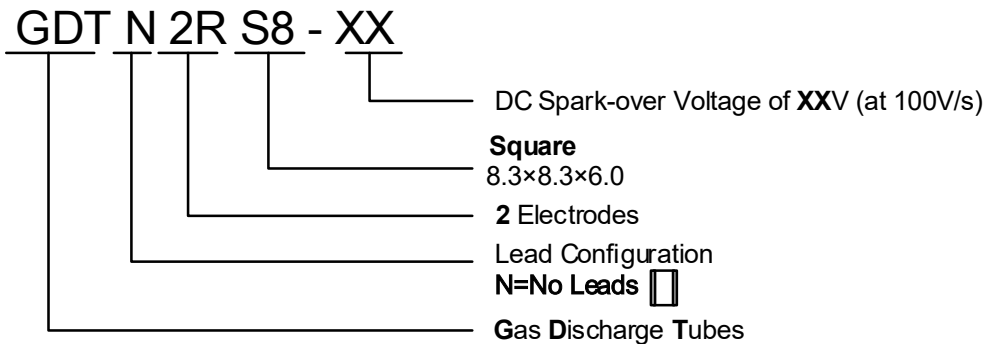
Dimensional drawing



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: 600 Pcs/Reel.

Contact Information

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For additional information, please contact your local Sales Representative.

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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.*