



GDTN3RD5-XX

Gas Discharge Tube

Features

- 3-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



Electrical Specifications

| Part number | DC Spark-over Voltage ^{1) 2)} | Maximum Impulse Spark-over Voltage | Service Life ³⁾ | Insulation resistance | Capacitance | Marking |
|--------------|--|------------------------------------|----------------------------|-----------------------|-------------|---------|
| | 100V/s | 1kv/μs | 8/20μs 10times | @ 100V _{DC} | @ 1 MHz | |
| | (V) | (V) | (KA) | (GΩ) | (pF) | |
| GDTN3RD5-75 | 75 ± 25% | 650 | 5 | >1@50V _{DC} | < 1.5 | 3R-075 |
| GDTN3RD5-90 | 90 ± 25% | 650 | 5 | >1@50V _{DC} | < 1.5 | 3R-090 |
| GDTN3RD5-150 | 150 ± 25% | 650 | 5 | > 1 | < 1.5 | 3R-150 |
| GDTN3RD5-230 | 230 ± 20% | 700 | 5 | > 1 | < 1.5 | 3R-230 |
| GDTN3RD5-300 | 300 ± 20% | 800 | 5 | > 1 | < 1.5 | 3R-300 |
| GDTN3RD5-350 | 350 ± 20% | 800 | 5 | > 1 | < 1.5 | 3R-350 |
| GDTN3RD5-400 | 400 ± 20% | 900 | 5 | > 1 | < 1.5 | 3R-400 |
| GDTN3RD5-420 | 420 ± 20% | 900 | 5 | > 1 | < 1.5 | 3R-420 |
| GDTN3RD5-470 | 470 ± 20% | 950 | 5 | > 1 | < 1.5 | 3R-470 |
| GDTN3RD5-600 | 600 ± 20% | 1050 | 5 | > 1 | < 1.5 | 3R-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.

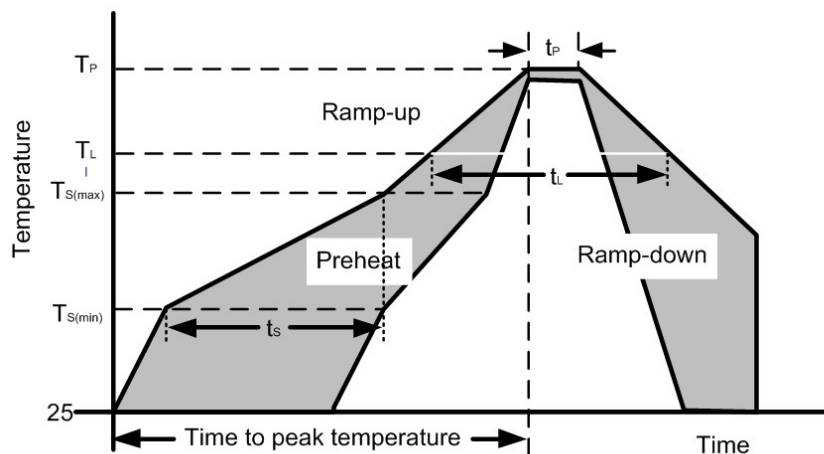
Terms and current waveforms in accordance with: ITU-T Rec. K.12; IEC 61643-21 and DIN 57845/VDE0845.

Thermal Consideration

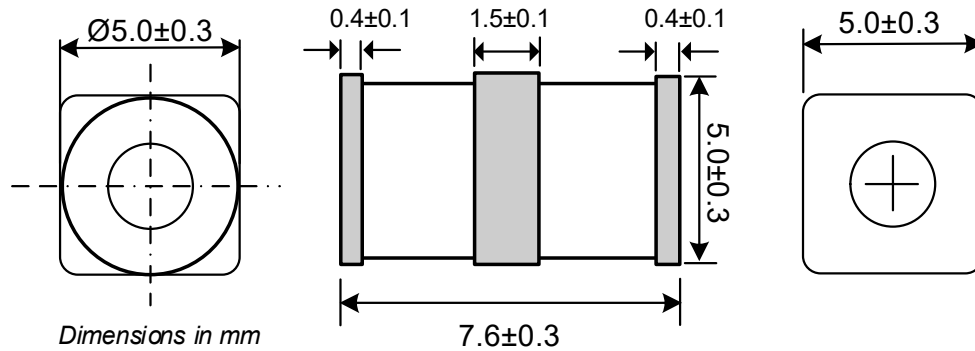
| Symbol | Parameter | Value | Unit |
|---------|---------------------------------------|------------|------|
| Ts & Tj | Storage & Operating temperature range | -40 to +85 | °C |

Soldering Parameters

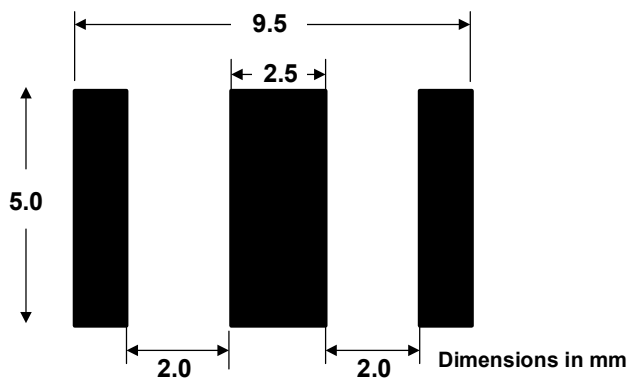
| | | |
|--|----------------------------------|-------------------------|
| Reflow Condition | | Pb – Free assembly |
| Pre Heat | Temperature Min ($T_{s(min)}$) | 150°C |
| | Temperature Max ($T_{s(max)}$) | 200°C |
| | Time (min to max) (t_s) | 60 – 190 secs |
| Average ramp up rate (Liquidus Temp) (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 ^{+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



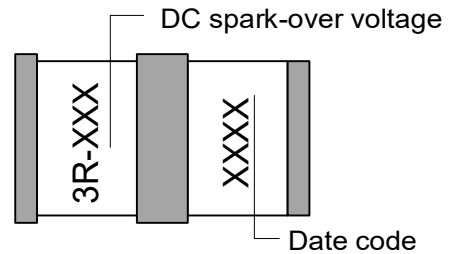
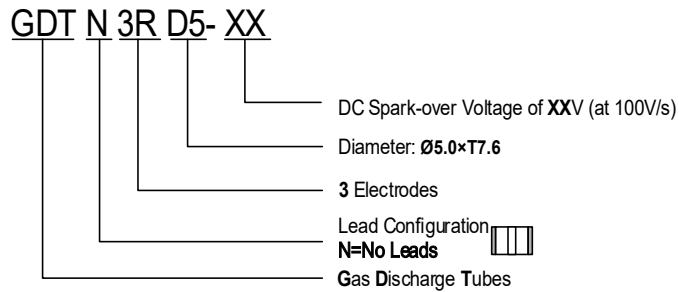
Solder Pad Layout



Cautions and Warnings

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

Part Numbering and Marking System



Package Information

Tape and reel: 1000 pcs per 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.*

单击下面可查看定价，库存，交付和生命周期等信息

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