Bourns Expands its Next-Generation Gas Discharge Tube Offering

*Model GDT25 Series*

*Riverside, California – June 29, 2023 –* Bourns is pleased to announce four additional GDT25 next-generation 2-electrode Gas Discharge Tube (GDT) models with new voltages. The Model GDT25 Series continues Bourns’ legacy of quality, innovation and design in GDT overvoltage surge arrestors and sets a new standard in speed and robustness.

This latest-generation GDT provides significant improvements in protection from voltage transients caused by lightning or accidental contact with AC power lines. With improvements driven by computer modeling simulations, the Model GDT25 next-generation series provides an enhanced level of voltage limiting during fast rising events, resulting in reduced stress on downstream components. In addition, this series has superior current handling capabilities and a wide operating temperature range.

<table>
<thead>
<tr>
<th>Bourns Part No.</th>
<th>DC Sparkover Voltage ±20% (2) (3) (4)</th>
<th>Impulse Sparkover Voltage (2) (5)</th>
<th>Insulation Resistance (IR) (6)</th>
<th>Glow Voltage</th>
<th>Arc Voltage</th>
<th>Glow to Arc Transition Current</th>
<th>Capacitance</th>
<th>DC Holdover Voltage (8)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GDT25-07</td>
<td>75 V</td>
<td>350 V</td>
<td>600 V</td>
<td>10 mA</td>
<td>&gt; 1 A</td>
<td></td>
<td>1 MHz</td>
<td>&lt; 150 ms</td>
</tr>
<tr>
<td>GDT25-09</td>
<td>90 V</td>
<td>350 V</td>
<td>500 V</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GDT25-15</td>
<td>150 V</td>
<td>427 V</td>
<td>500 V</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>GDT25-23</td>
<td>230 V</td>
<td>527 V</td>
<td>600 V</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>GDT25-35</td>
<td>350 V</td>
<td>650 V</td>
<td>800 V</td>
<td></td>
<td></td>
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<tr>
<td>GDT25-42</td>
<td>420 V</td>
<td>765 V</td>
<td>820 V</td>
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<tr>
<td>GDT25-47</td>
<td>470 V</td>
<td>825 V</td>
<td>860 V</td>
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<tr>
<td>GDT25-60</td>
<td>600 V</td>
<td>1000 V</td>
<td>1100 V</td>
<td></td>
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</tr>
</tbody>
</table>

Notes:

(1) Device Specifications

NEW!

NEW!

GDT2302
The low capacitance and low insertion loss make the series an ideal solution for the protection of industrial communications, and high speed information and communication technology (ICT) equipment. The series is RoHS compliant* and UL recognized.

Bourns is also pleased to announce the release of a new **GDT25 Design Kit** - part number DK-GDT25-02. This new design kit contains five pieces of each GDT25 model to provide design engineers with protection solutions for quick-turn prototype testing.


### Features
- 75 V - 600 V breakdown voltages
- -55 °C to +125 °C operating temperature
- Fast response time
- High surge current rating
- Low capacitance and insertion loss
- Stable performance throughout life
- Design kit available for quick-turn prototype testing
- UL recognized
- RoHS compliant*

### Applications
- Set top boxes
- Industrial communications
- HVAC controls
- xDSL, POTS, G.Fast
- Antennae

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