DTK-2MHLPPF Series
Signalling Circuit Modular Surge Protection

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DITEK’s DTK-2MHLPPF series of loop circuit surge protectors provide robust protection in a compact package. This series was designed to remove load instead of shorting to ground. Convenient field-replaceable modules offer ease of installation, and the Snap-Track base system allows installers to protect multiple circuits while utilizing a common ground point.

Technical Specifications

<table>
<thead>
<tr>
<th>DTK-2MHLPPF</th>
<th>5F</th>
<th>12F</th>
<th>24F</th>
<th>36F</th>
<th>48F</th>
<th>75F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service Voltage</td>
<td>5V</td>
<td>12V</td>
<td>24V</td>
<td>36V</td>
<td>48V</td>
<td>75V</td>
</tr>
<tr>
<td>MCOV</td>
<td>6V</td>
<td>18V</td>
<td>33V</td>
<td>48V</td>
<td>64V</td>
<td>90V</td>
</tr>
<tr>
<td>Clamping Voltage</td>
<td>6.8V</td>
<td>21.6V</td>
<td>39V</td>
<td>57V</td>
<td>76V</td>
<td>108V</td>
</tr>
<tr>
<td>Protection Modes</td>
<td>Line-Ground (All)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surge Current Rating</td>
<td>20,000 Amps</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max Continuous Current</td>
<td>1 Amp</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Data Rate</td>
<td>200kbps to 2Mbps</td>
<td></td>
<td></td>
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</tbody>
</table>

Mechanical Characteristics

- Base Connection Method: 10AWG max screw terminals
- Module Connection Method: Edge card into mounting base
- Housing: ABS
- Operating Temperature: -40°F - 158°F (-40°C - 70°C)
- Maximum Humidity: 95% non-condensing

Dimensions:
- Module: 2.1"L x 1.4"W x 1.9"H (53mm x 36mm x 48mm)
- Module with Base: 3.25"L x 1.5"W x 2.6"H (83mm x 38mm x 66mm)

Weight:
- 1.2 oz (34g)
- 2.8 oz (79g)

Quality, Standards & Approval

- Agency Approvals: UL497B
- Warranty: Ten Year Limited Warranty

Product Features

- Protects two pairs per module
- Exclusive load removal feature
- Multi-stage, SAD technology, hybrid design, provides the best possible protection
- Field replaceable, modular edge card connection design with a single point ground for fast installation, saves time
- Six voltage levels available to protect all types of voice/data applications
- Hard-wired multi-base mounting system allows you to protect up to ten pairs with a common ground. See next page for base part numbers
- Suitable for use on both AC and DC circuits

Applications

- Circuits that operate at less than 1 Amp
- Fire Alarm Panel SLC, PIV and IDC Circuits
- Burglar Alarm Panel IDC Circuits
- 4-20mA Current Loops

Accessories

- To order Module with Base, add "WB" to end of part number
- Test Module Kit – Part Number DTK-2MHLPTM
- DIN Rail Mounting Kit – Part Number DTK-DRK

DTK-2MHLPP24F

DTK-2MHLPP24FWB

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### Base Part Numbers and Dimensions

<table>
<thead>
<tr>
<th>Part Number</th>
<th># Pairs Protected</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>DTK-MB10</td>
<td>2</td>
<td>3.25&quot;H x 1.50&quot;W (82.5mm x 38.1mm)</td>
</tr>
<tr>
<td>DTK-2MB</td>
<td>4</td>
<td>3.25&quot;H x 3.00&quot;W (82.5mm x 76.2mm)</td>
</tr>
<tr>
<td>DTK-3MB</td>
<td>6</td>
<td>3.25&quot;H x 4.50&quot;W (82.5mm x 114.3mm)</td>
</tr>
<tr>
<td>DTK-4MB</td>
<td>8</td>
<td>3.25&quot;H x 6.00&quot;W (82.5mm x 152.4mm)</td>
</tr>
<tr>
<td>DTK-5MB</td>
<td>10</td>
<td>3.25&quot;H x 7.50&quot;W (82.5mm x 190.5mm)</td>
</tr>
</tbody>
</table>

![DTK-MB10](image1.png)

![DTK-2MB](image2.png)

![DTK-3MB](image3.png)

![DTK-4MB](image4.png)

![DTK-5MB](image5.png)