Bourns® 2510 and 2520 Series Data and Signal Surge Protective Devices

INTRODUCTION
Bourns is pleased to announce the release of a new data and signal Surge Protective Device (SPD) family which significantly expands our current product line offering.

The Bourns® Model 2510 and 2520 Series are DIN-Rail data and signal SPDs. These protectors are designed to protect data lines which can provide surge protection for 1-pair or 2-pair data lines with common reference potential in the data, signal, and communication systems.

The Model 2510 and 2520 Series data and signal SPDs have a maximum discharge current rating of 20 kA (8/20 μs). These series are UL 497B listed SPD and comply with the IEC 61643-21 standard.

FEATURES
- UL listed data line protector per UL 497B standard.
- Signal transmission is not interrupted when exchanging modules.
- Two-stage protection circuit limits the transients with gas discharge tubes and diodes.
- Complies with UL 497B and IEC 61643-21, category D1/C1/C2/C3.
- Pluggable surge protection for DIN-Rail mounting.

BENEFITS
- Data line SPDs serve as a crucial defense against transient voltage surges, bolstering data integrity, minimizing operational disruptions, and safeguarding electronic devices and communication networks.
- The prevention of sudden disruptions and downtime caused by surges maintains seamless business operations, reducing downtime costs and potential data loss.

APPLICATIONS
- RS-232, RS-422 and RS-485 interfaces
- Low voltage alarm circuits
- High-frequency transmission systems
- Analog/digital communication

HOW TO ORDER MODEL 2510
Model Designator 2510 - 2L n xxx
Number of Data lines 2L = 1-Pair or 2 Single Lines
Circuit Configuration (Refer to Product Schematics) 1 = Circuit Type 1 2 = Circuit Type 2 3 = Circuit Type 3
Nominal Voltage 05 = 5 VDC 12 = 12 VDC 24 = 24 VDC 48 = 48 VDC 110 = 110 VDC

HOW TO ORDER MODEL 2520
Model Designator 2520 - 4L n xxx
Number of Data lines 4L = 2-Pair or 4 Single Lines
Circuit Configuration (Refer to Product Schematics) 4L = 2-Pair or 4 Single Lines
Nominal Voltage 05 = 5 VDC 12 = 12 VDC 24 = 24 VDC 48 = 48 VDC

MORE INFORMATION
- AC Power SPDs: Model 1250A Series SPD
- DC Power SPDs: Model 1420A Series SPD
- High-energy MOVs
- High-current GDTs
- Power TVS Diodes

11/23 • e/SPD2327
NEW PRODUCT BRIEF

Bourns® 2510 and 2520 Series Data and Signal Surge Protective Devices

ELECTRICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Series</th>
<th>Protection Line</th>
<th>Nominal Voltage</th>
<th>Nominal Current</th>
<th>Cut-off Frequency</th>
<th>Operating Temperature Range</th>
<th>Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td>2510-2L-n-xxx</td>
<td>1-Pair</td>
<td>5, 12, 24, 48, 110</td>
<td>1 A</td>
<td>100 MHz</td>
<td>-40 °C ~ +85 °C</td>
<td>UL 497B; IEC 61643-21</td>
</tr>
<tr>
<td>2520-4L-n-xxx</td>
<td>2-Pairs</td>
<td>5, 12, 24, 48</td>
<td>1 A</td>
<td>100 MHz</td>
<td>-40 °C ~ +85 °C</td>
<td>UL 497B; IEC 61643-21</td>
</tr>
</tbody>
</table>

For full characteristics, see data sheet

PRODUCT DIMENSIONS

![Product Dimensions Diagram]

DIMENSIONS: MM (INCHES)