

NEW PRODUCT BRIEF



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

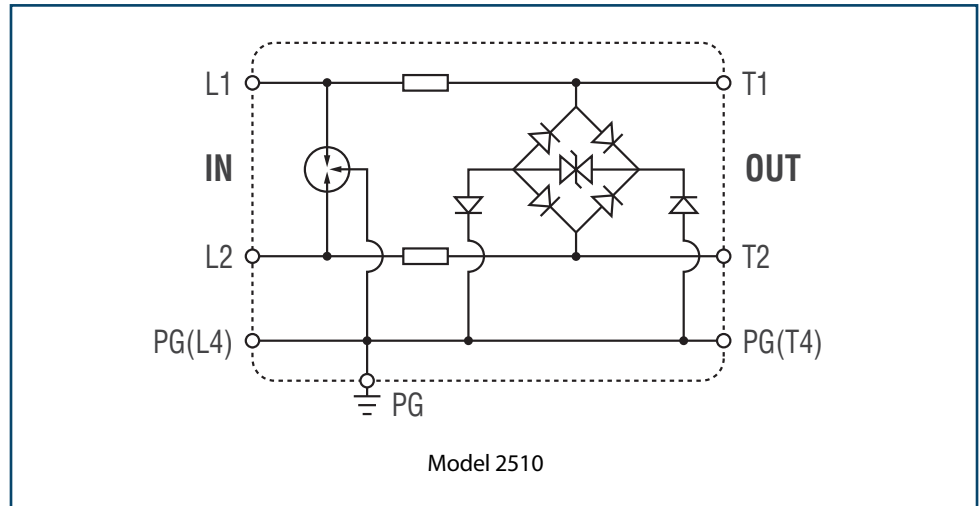
INTRODUCTION

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.

CIRCUIT DIAGRAM



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

2510 - 2L n xxx

- Model Designator _____
- 2510 = Data and Signal SPD
- Number of Data Lines _____
- 2L = 1-Pair or 2 Single Lines
- Circuit Configuration (Refer to Product Schematics) _____
- 1 = Circuit Type 1 4 = Circuit Type 4
- 2 = Circuit Type 2 5 = Circuit Type 5
- 3 = Circuit Type 3 6 = Circuit Type 6
- Nominal Voltage _____
- 05 = 5 VDC
- 12 = 12 VDC
- 24 = 24 VDC
- 48 = 48 VDC
- 110 = 110 VDC

HOW TO ORDER MODEL 2520

2520 - 4L n xxx

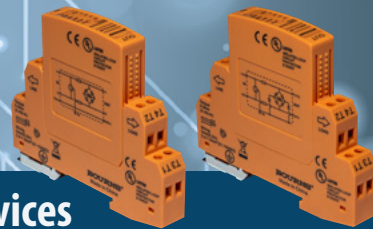
- Model Designator _____
- 2520 = Data and Signal SPD
- Number of Datalines _____
- 4L = 2-Pair or 4 Single Lines
- Circuit Configuration (Refer to Product Schematics) _____
- 1 = Circuit Type 1
- 2 = Circuit Type 2
- 3 = Circuit Type 3
- Nominal Voltage _____
- 05 = 5 VDC
- 12 = 12 VDC
- 24 = 24 VDC
- 48 = 48 VDC

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](#)

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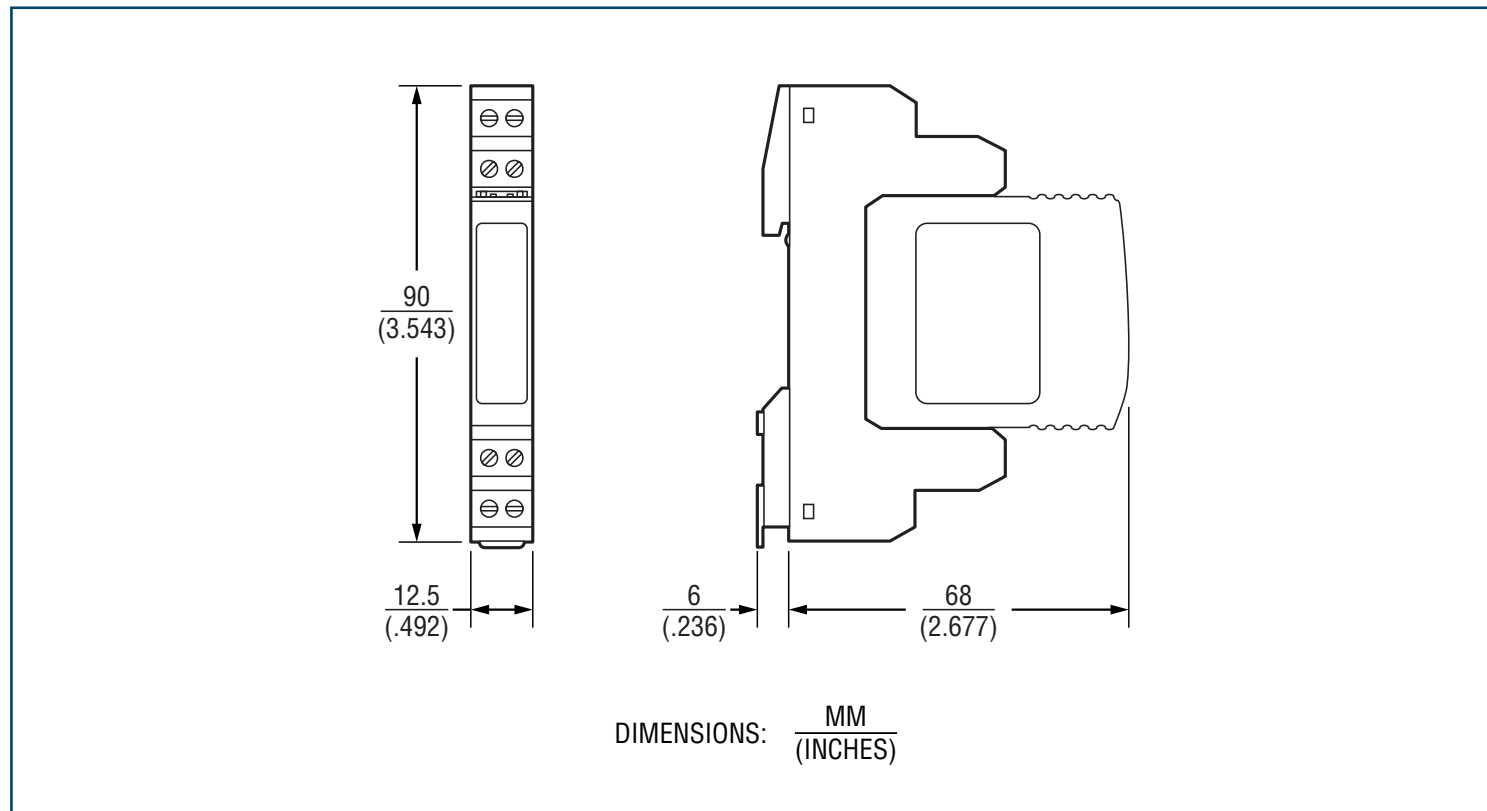


ELECTRICAL CHARACTERISTICS

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

For full characteristics, see data sheet

PRODUCT DIMENSIONS



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