

# T2RJ45xxxD8DIN-B

Network Data Circuit protection device with Discrete All-Mode Protection



PO Box 15732  
Brooksville, FL 34604  
Phone: 888-987-8877  
Fax: 1-888-987-8877  
www.surgesuppression.com

The Series T2RJ45 devices are designed to protect data transmission circuits. These devices are intended for installation near the equipment to be protected and mounted as close to the equipment as possible so as to allow for a common point for grounding.

This device provides protection to all 8 pins through the RJ45 connectors provided. A ground lug is provided on the side of the unit to insure a low impedance ground discharge path.

The unique design of these devices makes them among the most versatile SPD devices on the market with superior performance specs and a warranty that is second to none.

## GENERAL

<b>Description:</b>	Series wired transient voltage surge suppressor with <b>Optimal Response Network™</b> circuitry for protection of data circuits.
<b>Application:</b>	Designed for use data, signal and current loop circuits to protect data transmission system equipment from damaging transients generated between terminals and equipment in the data collection/transmission system.
<b>Warranty:</b>	<b>25 Years Unlimited Free Replacement</b>
<b>Unit Listing:</b>	Listed to UL497B

## MECHANICAL

<b>Enclosure:</b>	Plastic, UL 94-5VA
<b>Mounting:</b>	DIN rail mounting foot
<b>Connection Method:</b>	RJ45 modular connectors
<b>Shipping Weight:</b>	< 1 lbs

## CIRCUITRY

<b>Circuit Design:</b>	Series wired hybrid design incorporating discrete all mode protection and utilizing our <b>Optimal Response Network™</b> design to provide lowest possible let-through voltages. All suppression circuits are encapsulated in our high dielectric compound to promote long component life and protection from the environment and/or vibration.
<b>Protection Modes:</b>	Dedicated protection components and circuitry for each mode. Discrete L-L (Normal Mode) and L-G, Shield-G (Common Mode)

## PERFORMANCE

<b>Maximum Continuous Operating Voltage:</b>	7.5, 24, 36, 68, and 200 V
<b>Maximum Continuous Operating Current:</b>	500 mA
<b>Series Resistance:</b>	0 Ohms per wire
<b>Maximum Data Rate:</b>	100 Kbps
<b>Peak Surge Current per Pair:</b>	L-L 10 kA, L-G 10 kA

**Let-Through Voltages Using ANSI/IEEE C62.45 & C62.41.2 Test Environment:  
Static, positive polarity. All voltages are peak ( $\pm 10\%$ ).**

Model	Maximum Continuous Operating Voltages	Maximum Continuous Operating Current	Test Mode	B3/C1 Impulse Wave 6 kV, 3 kA (100 Kbps)
T2RJ455D8DIN-B	14 V 28 V	500 mA	L-G L-L	149 149
T2RJ4512D8DIN-B	31 V 62 V	500 mA	L-G L-L	163 163
T2RJ4524D8DIN-B	38 V 76 V	500 mA	L-G L-L	220 220
T2RJ4548D8DIN-B	102 V 204 V	500 mA	L-G L-L	295 295
T2RJ45140D8DIN-B	175 V 350 V	500 mA	L-G L-L	470 470

