Transient Voltage Surge Suppressors By:

ST-DRJ45##C8-B Data Line Models

Network Data Circuit protection device with Discrete All-Mode Protection

Energy Control Systems
Fort Worth, Texas U.S.A.

"Our Name Says It All"

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The Series ST-DRJ45##C8-B devices are designed to protect data transmission circuits. These devices are intended for installation as close to the electrical power source of the equipment as possible so as to allow for a common point for grounding.

This device provides protection to all 8 lines (4 pairs) through the RJ45 connectors provided, making your installation a breeze. A ground lug is provided on the face of the unit to insure a low impedance ground discharge path.

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

GENERAL

Description:	Series wired transient voltage surge suppressor with **O**ptimal **R**esponse **N**etwork™ circuitry for protection of data circuits.
Application:	Designed for use on 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.
Warranty:	**25 Years Unlimited Free Replacement**
Unit Listing:	Listed to UL497B

MECHANICAL

Enclosure:	Plastic, UL 94V-0
Mounting:	External mounting feet. DIN mounting feet (DIN option)
Connection Method:	RJ45 modular connectors
Shipping Weight:	**<** 1 lbs

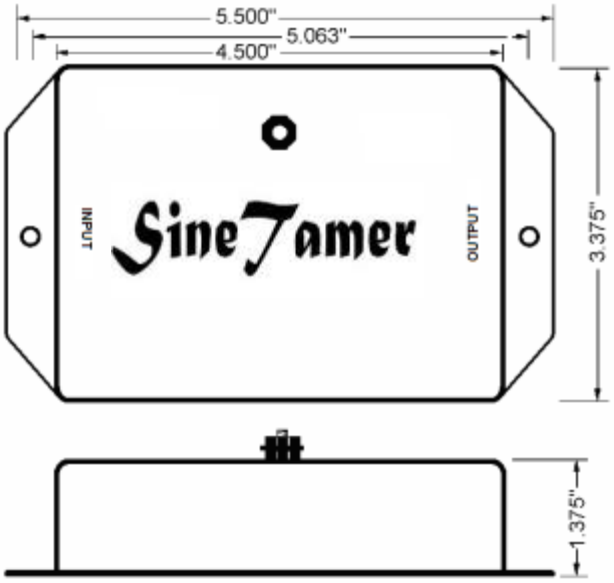
CIRCUITRY

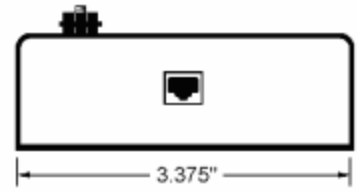
Circuit Design:	Series wired hybrid design incorporating discrete all mode protection and utilizing our **O**ptimal **R**esponse **N**etwork™ design to provide lowest possible let-through voltages. All suppression circuits are encapsulated in our high dielectric compound to assure long component life and complete protection from the environment and/or vibration.
Protection Modes:	Dedicated protection components and circuitry for each mode. Discrete L-L (Normal Mode) and L-G (Common Mode)

PERFORMANCE

Maximum Continuous Operating Voltage:	7.5, 15, 36, 54, and 140 V
Maximum Continuous Operating Current:	500 mA
Series Resistance:	0 Ohms per wire
Maximum Data Rate:	100 Mbps
Peak Surge Power per pair:	1,500 Watts per mode (4,500 Watts total).

Let-Through Voltages Using ANSI/IEEE C62.45 & C62.41 Test Environment: Static, positive polarity. All voltages are peak (±10%).			
Model	**Maximum Continuous Operating Voltages**	**Test Mode**	**10 x 1,000 µsec Impulse waveform IPP = 100 Apk**
ST-DRJ455C8-B	7.5 V 7.5 V	L-G L-L	< 20 < 20
DRJ4512C8-B	15 V 15 V	L-G L-L	< 30 < 30
DRJ4524vC8-B	36 V 36 V	L-G L-L	< 60 < 60
DRJ4548C8-B	54 V 54 V	L-G L-L	< 90 < 90
DRJ45140C8-B	140 V 140 V	L-G L-L	< 250 < 250





Modular RJ45 Connection

Actual unit may vary from picture.