

**Transient Voltage
Surge Suppressors By:**

ST-DP2##C##-B

Network Data Circuit protection device with Discrete All-Mode Protection



P.O. Box 330607
Ft. Worth, TX 76163
Phone: 817.483.8497
Fax: 817.572.2242
www.sinetamer.com

"Power Quality is our Only Business"

These Data Line devices are designed to protect data transmission circuits. They are intended for installation near the equipment to be protected and should be mounted as close to the equipment as possible to allow for a common system grounding point.

This device is available for up to eight wire data line connections (up to 4 pair) accomplished by using the modular terminal strips provided, making your installation a breeze. Ground lugs are 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 encapsulated Optimal Response Network™ circuitry for protection of data circuits.
Application:	Designed for use with 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:	Modular, wire clamping, box terminals (4 pair per header) located on the input and output sides of the device. Wire size: Lines #18-22 AWG, Ground #6-12 AWG.
Shipping Weight:	< 2 lbs

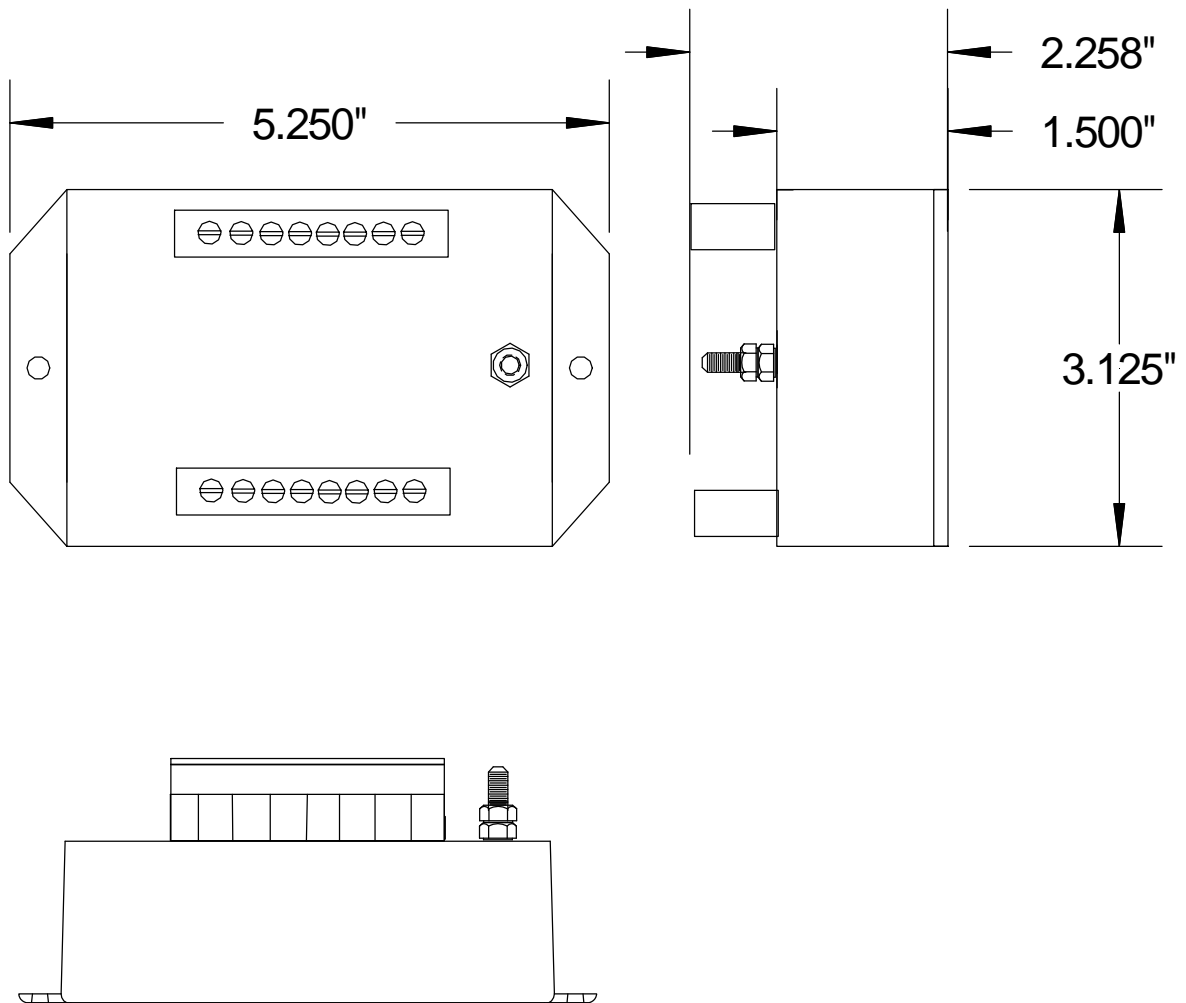
CIRCUITRY	
Circuit Design:	Series wired hybrid design incorporating discrete all mode protection and utilizing our encapsulated Optimal Response Network™ design to provide lowest possible let-through voltages. All suppression circuits are encapsulated in our high dielectric compound to promote long component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

PERFORMANCE	
Maximum Continuous Operating Voltage:	7.5, 15, 36, 62, and 140 V
Maximum Continuous Operating Current:	500 mA
Series Resistance:	0 Ohms per wire
Maximum Data Rate:	100 Mbps
Peak Surge Current per Pair:	1,500 Wpk per mode & 3,000 Wpk Total

Let-Through Voltages Using ANSI/IEEE C62.45 & C62-41.1 / C62-41.2 Test Environment: Static, positive polarity. All voltages are peak (±10%).	ANSI/IEEE C62.45 Alt. λ- Form / IEC
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Model	Maximum Continuous Operating Voltages	Maximum Continuous Operating Current	Test Mode	10 X 1000 us IMPULSE ($I_{PP} = 100$ Apk) (100 Mbps)
ST-DP25Cn-B	7.5 V 15 V	500 mA	L-G L-L	20 V 40 V
ST-DP212Cn-B	15 V 30 V	500 mA	L-G L-L	30 V 60 V
ST-DP224Cn-B	36 V 72 V	500 mA	L-G L-L	60 V 120 V
ST-DP248Cn-B	62 V 124 V	500 mA	L-G L-L	90 V 180 V
ST-DP2140Cn-B	140 V 280 V	500 mA	L-G L-L	250 V 500 V

Notes: n = 4 or 8 circuit conductors.



Actual Unit may vary from picture.