

**Transient Voltage  
Surge Suppressors By:**

**Telephone Line Models**

Network Data Circuit protection device with Discrete All-Mode Protection



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*"Power Quality is Our Only Business"*

The Telephone Line devices are designed to protect standard voice grade telephone lines. These devices are intended for installation at the telephone demarcation point so as to allow for a common grounding point.

This device is available for a variety of line connections (1, 2, 3 or 6 pair) accomplished by using terminal strips or (1 or 2 pair) using standard RJ-11 or RJ-14 connectors, 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 make them among the most versatile TVSS devices on the market with performance specs that are superior to our competitors and a warranty that is second to none.

**GENERAL**

<b>Description:</b>	Series wired transient voltage surge suppressor with encapsulated <b>Optimal Response Network™</b> circuitry for protection of voice grade telephone circuits.
<b>Application:</b>	Standard 3002/C2 unconditioned voice grade lines, fax lines, modem lines and <b>ISDN</b> lines to protect data transmission system equipment from damaging transients generated outside of the facility.
<b>Warranty:</b>	<b>25 Years Unlimited Free Replacement</b>

**MECHANICAL**

<b>Enclosure:</b>	Plastic, UL 94V
<b>Physical Dimensions:</b>	5.5" X 3.375" X 1.875" (1,2,3 pair terminal, RJ11, RJ14) 7.3" X 4.7" X 2.8" (6 pair terminal)
<b>Mounting:</b>	External mounting feet.
<b>Connection Method:</b>	Standard screw terminals (TC models) or RJ-11 or RJ-14 modular connectors (RJ models)
<b>Shipping Weight:</b>	≈ 1lbs

**CIRCUITRY**

<b>Circuit Design:</b>	Series wired, parallel connected hybrid design incorporating discrete all mode protection and utilizing our encapsulated <b>Optimal Response Network™</b> design to provide lowest possible let-through-voltages. All suppression circuits are completely encapsulated in our exclusive compound to assure long component life and complete protection from the environment and/or vibration.
<b>Protection Modes:</b>	Discrete All Mode – Tip to Ring (Normal Mode); Tip to Ground and Ring to Ground (Common Mode)
<b>Maximum Data Rate:</b>	Up to 100kbits/sec

**PERFORMANCE**

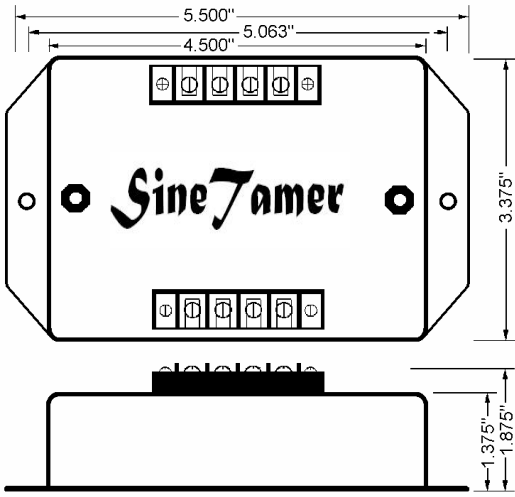
<b>Maximum Continuous Operating Voltage:</b>	130Vrms
<b>Maximum Continuous Operating Current:</b>	360ma
<b>Peak Surge Current per Pair:</b>	30,000 amps per pair
<b>Response Time:</b>	<1 nanosecond

Because we are constantly seeking to improve our products, specifications are subject to change at any time.

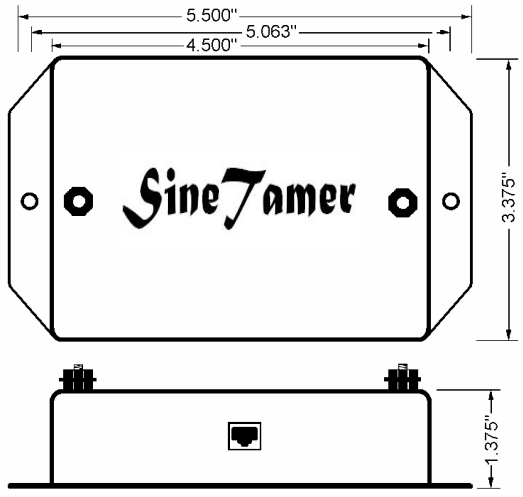
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Models Available	
<b>ST-TC-2</b>	Single Pair – Terminal Connected
<b>ST-TC-4</b>	Two Pair – Terminal Connected
<b>ST-TC-6</b>	Three Pair – Terminal Connected
<b>ST-TC-12</b>	Six Pair – Terminal Connected
<b>ST-RJ-14</b>	One or Two Pair – RJ-14 Modular Connection

ANSI/IEEE C62.41-1991 Let-through Voltage Tests		<b>Let-through Voltage test Environment</b> using ANSI/IEEE C62.41-1991, C62.45-1992; Static, Positive Polarity All voltages are peak (±10%), Time base = 1ms
Test Mode	Test Category B3/C1 Impulse Wave 6,000V 3,000A	
L-L	350	
L-G	350	



**Terminal Strip Connection**



**Modular RJ-14 Connection**

**ST-TC-12 model dimensions are 7.3" X 4.7" X 2.8"**