

**POWERTRIP®**  
TRANSIENT VOLTAGE SURGE SUPPRESSOR

## PT-TC AND PT-RJ

### Telephone Line Models

The **PowerTrip TC and RJ series** 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 easy. A ground lug is provided on the face of the unit to insure a low impedance ground discharge path.

**Description:** Series wired, parallel connected transient voltage surge suppressor with encapsulated Optimal Response Network circuitry (20kA or 40kA per mode peak surge current).

**Application:** Standard 3002/C2 unconditioned voice grade lines, fax lines, modem lines and ISDN lines to protect data transmission system equipment from damaging transients generated outside of the facility.

**Enclosure:** NEMA 4 ABS Composite - UL94V-0.

**Mounting:** External mounting feet.

**Connection Method:** Standard screw terminals (TC models) or RJ-11 or RJ-14 modular connectors (RJ models)

**Shipping Weight:** 1 lbs.

**Circuit Design:** Series wired, parallel connected 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 completely encapsulated in our exclusive compound to assure long component life and complete protection from the environment and/or vibration.

**Protection Modes:** Discrete All Mode - Tip to Ring (Normal Mode); Tip to Ground and Ring to Ground (Common Mode)

**Max Data Rate:** Up to 100kbits/sec

**Max Continuous Operating Voltage:** 130Vrms

**Max Continuous Operating Current:** 360ma

**Response Time:** < 1 nanosecond

**Peak Surge Current per Pair:** 30,000 amps per pair

**Warranty:** 25 Years Unlimited Free Replacement

#### KEY FEATURES

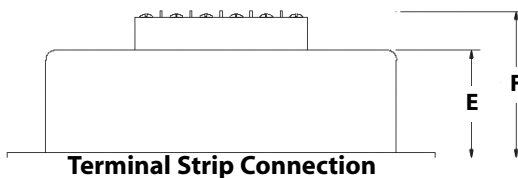
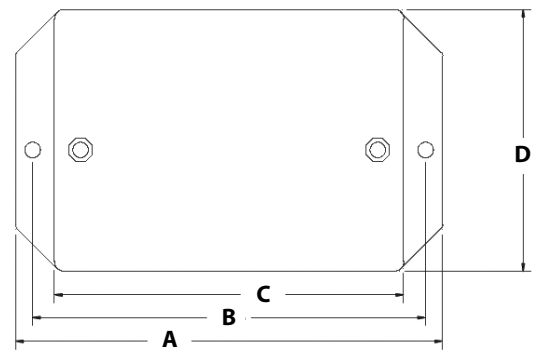
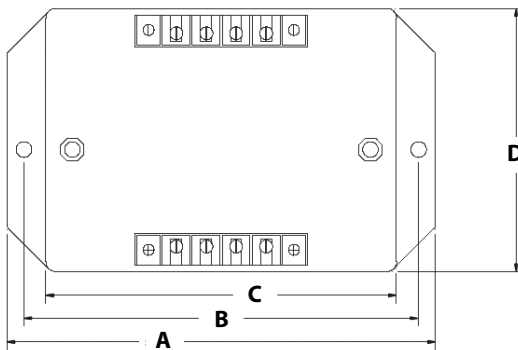
- Discrete "All Mode" Circuitry
- Industry Leading Measured Limiting Voltage (let-through) Performance
- Multi-stage Hybrid Optimal Sinewave Tracking™ Circuit
- Independent Verification of Performance and Safety
- Component-Level, Thermal Fusing



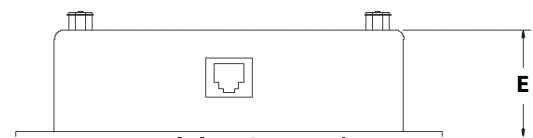
MADE IN THE U.S.A.

**POWER TRIP PT-TC AND PT-RJ TELEPHONE LINE MODELS**

PT-TC-2	Single Pair - Terminal Connected
PT-TC-4	Two Pair - Terminal Connected
PT-TC-6	Three Pair - Terminal Connected
PT-TC-12	Six Pair - Terminal Connected
PT-RJ-14	One or Two Pair - RJ-14 Modular Connection
<b>ANSI/IEEE C62.41 - 1991 Let-through Voltage Tests</b>	
<b>Test Mode</b>	<b>Test Category B3/C1 Impulse Wave 6000V 3000A</b>
<b>L-L L-G</b>	<b>350 350</b>
<b>Let-through Voltage Test Environment using ANSI/IEEE C62.41-1991, C62.45-1992; Static, Positive Polarity All voltages are peak (<math>\pm 10\%</math>), Time base = 1 ms</b>	



Terminal Strip Connection



Modular Connection

**Enclosure Dimensions**

Dimensions (in.)	Terminal Strip Connection Model	Modular Connection Model
A	5.500	5.500
B	5.063	5.063
C	4.500	4.500
D	3.375	3.375
E	1.375	1.375
F	1.875	N/A
Weight	1.0 lbs.	1.0 lbs.

PT-TC-12 model dimensions are 7.3" X 4.7" X 2.8"