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These 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, 4, or 6 pair) accomplished by using terminal strips, 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 SPD devices on the market with superior performance specs and a warranty that is second to none.

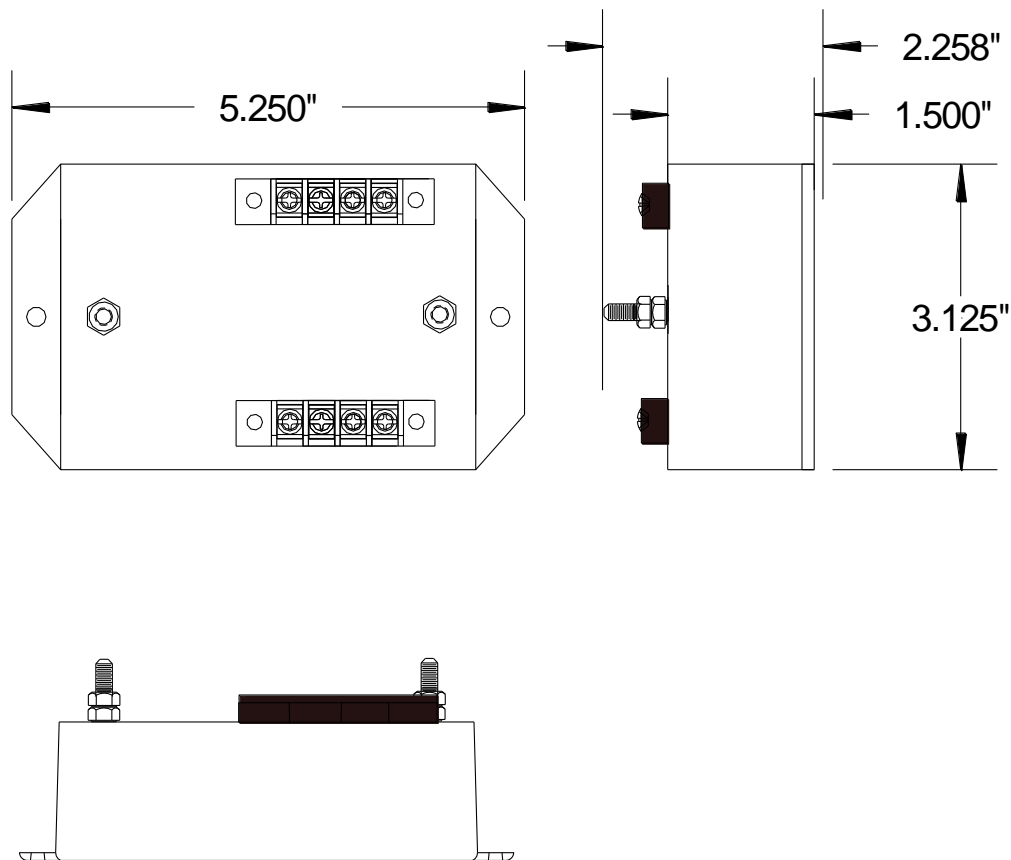
<b>GENERAL</b>	
<b>Description:</b>	Series wired transient voltage surge suppressor with encapsulated <b>Optimal Response Network™</b> circuitry for protection of voice grade telephone circuits.
<b>Application:</b>	Standard 3002/C2 unconditioned voice grade lines, fax lines, modem lines and <b>ISDN</b> 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>
<b>Unit Listing:</b>	Listed to UL497B

<b>MECHANICAL</b>	
<b>Enclosure:</b>	Plastic, UL94-5VA
<b>Physical Dimensions:</b>	5.5" X 3.375" X 1.875" (1, 2, & 3 pair terminal). 7.3" X 4.7" X 2.8" (4 or 6 pair terminal)
<b>Mounting:</b>	Modular, wire clamping box terminals located at the input and output sides of the device. Wire size: Lines # 12-20 AWG, Ground # 6-12 AWG.
<b>Connection Method:</b>	Standard screw terminals
<b>Shipping Weight:</b>	< 2 lbs

<b>CIRCUITRY</b>	
<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 encapsulated in our high dielectric compound to promote long component life and 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>PERFORMANCE</b>	
<b>Maximum Continuous Operating Voltage:</b>	See table on back
<b>Maximum Continuous Operating Current:</b>	5 A
<b>Series Resistance:</b>	0 Ohms
<b>Maximum Data Rate:</b>	Up to 100 Kbps
<b>Peak Surge Current per Pair:</b>	30 kA per pair

Let-Through Voltages Using ANSI/IEEE C62.45 & C62-41.1 / C62-41.2 Test Environment: Static, positive polarity. All voltages are peak ( $\pm 10\%$ ).					
Model x = 2,4,6, 8 or 12	Nominal System Operating Voltage (Vnom)	Maximum Continuous Operating Voltages	Maximum Continuous Operating Current	Test Mode	B3/C1 Impulse Wave 6 kV, 3 kA (100 Kbps)
TC5Dx-B	5 V	14 VDC	5 A	T/R-G T-R	149 149
TC12Dx-B	12 V	31 VDC	5 A	T/R-G T-R	163 163
TC24Dx-B	24 V	38 VDC	5 A	T/R-G T-R	220 220
TC48Dx-B	48 V	102 VDC	5 A	T/R-G T-R	295 295
TC130Dx-B	130 V	175 VDC	5 A	T/R-G T-R	470 470



Actual unit may vary from picture below. (8 and 12 position unit not shown)