

**Transient Voltage
Surge Suppressors By:**

ST-PDB Series

Telecommunication Lines Protection - Punch Down Block Device



*"Power Quality is our Only
Business"*

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The Series ST-PDB devices are designed to protect voice grade telephone lines, fax lines, modem lines or ISDN lines. This device is intended for installation at the point of demarcation close to the building ground so as to facilitate ground wire connection to the same point as the building ground.

This device is designed to protect up to twenty-five lines. Connection is accomplished by punching the pairs down as with a standard punch down block making your installation a breeze. A ground lug is provided on the side of the unit to insure a low impedance ground discharge path.

The unique design of the ST-PDB devices makes 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

Description:	Series wired transient voltage surge suppressor with encapsulated Optimal Response Network™ circuitry for protection of telecommunications circuits.
Application:	Designed for use on Standard 3002-C2 unconditioned voice grade lines, fax lines, modem lines or ISDN lines to protect all telecommunication system equipment from damaging transients generated outside that facility on the Central Office cable.
Warranty:	25 Years Unlimited Free Replacement

MECHANICAL

Enclosure:	Metal bottom section with ABS plastic terminal housing upper half.
Mounting:	External mounting feet.
Connection Method:	Lines: standard punch down block terminals (#26 wire min - #22 wire max) Ground: 10/32 wire clamping box terminal lug (#12 wire min - #6 wire max)
Shipping Weight:	~6lbs

CIRCUITRY

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 low capacitance and low impedance and are completely encapsulated in our exclusive 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 tip-to-ring (Normal Mode) and tip-to-ground and ring-to-ground (Common Mode)

PERFORMANCE

Maximum Continuous Operating Voltage:	130 Vrms Tip-Ring, Tip-Ground and Ring-Ground
Maximum Data Rate:	Up to 100 Kbps
Let-Through-Voltage:	< 420 Volts at B3/C1 Impulse (6 kV / 3 kA, combination wave) T-R, T/R-G.
Peak Surge Current per Pair:	30 kA per pair
Response Time:	< 1 ns
Series Resistance:	0 Ohms per wire

Let-Through-Voltage Test Environment	
ANSI/IEEE C62.45 & C62.41; Static, Positive Polarity. All voltages are peak ($\pm 10\%$)	
Let-Through-Voltage Tests:	
Test Mode	Test Category B3/C1 Impulse Wave 6 kV 3 kA
T-R	< 420 V
T/R-G	< 420 V

Models Numbers	Description of Models Available
ST-PDB25	25 Pair Telephone, 130V, Punch Block Connected
ST-PDB6	6 Pair Telephone, 130V, Punch Block Connected

