

**Transient Voltage
Surge Suppressors By:**

ST-PDBxx

Telecommunication Lines Protection - Punch Down Block Assembly



"Power Quality is our Only Business"

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The ST-PDBxx series assembly is designed to protect voice grade telephone lines, fax lines, modem lines or ISDN lines from damage due to surges. These devices are 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.

Connection is accomplished by punching the pairs down with a standard punchdown tool, making your installation a breeze. A ground lug is provided on the side of the unit to insure a low impedance ground discharge path.

Acceptable model numbers are ST-PDB5, ST-PDB10, ST-PDB15, ST-PDB20, or ST-PDB25.

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:	Plastic, UL 94V-0
Mounting:	External mounting feet. DIN mounting feet (DIN option)
Connection Method:	Lines: standard IDC terminals (# 26 wire min - #22 wire max) Ground: 10/32 wire clamping box terminal lug (#12 wire min - #6 wire max)
Shipping Weight:	Shipping weight is dependant on model ordered.

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 encapsulated in our high dielectric 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.

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
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

Assembly shown is PDB25. PDB modules may be added or subtracted depending on assembly ordered.

