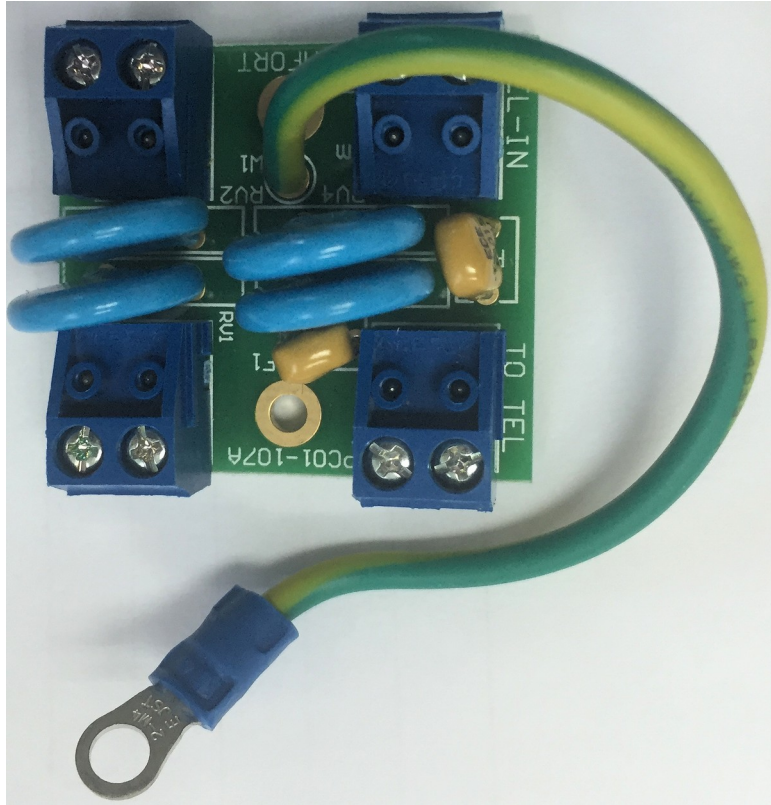


OPB01 Specs



General

The OPB01 provides overcurrent and Overvoltage for the PSTN Telephone line as well as Overvoltage protection for the Power Supply incoming to the Comfort PCB (16VAC). The OPB01 works in conjunction with built-in internal protection components on the Comfort PCB to provide an additional level of protection to voltage surges caused by nearby lightning events.. **However the OPB01 is not able to withstand a direct lightning strike as that involves typically thousands of amperes and very high voltages.**

Connections

To Comfort

- AC In – 2 way Terminal Block connect to Comfort AC In
- TEL IN - 2 way Terminal Block connect to Comfort TEL IN

External

- To Supply - 2 way Terminal Block connect to Transformer Secondary wires (16VAC)
- To TEL - 2 way Terminal Block connect to PSTN Incoming Telephone line

Earth Cable

Connect Earth Ground for protection. **The Earth Lug should be screwed in to the earth connection on the Metal Enclosure. The Metal Enclosure should be grounded securely to provide Earth protection for the enclosure and products within.**

Telephone Line Protection

Series Protection consists of 2 Resettable fuses on each leg of the telephone Input (Tip and Ring)

Hold Current: 0.15 Amps

Maximum Current (at Rated Voltage): 3 Amps

Max Operating Voltage: 60Vdc

Max Int Voltage: 250V

Min Resistance: 3 Ohms

Max Resistance: 10 Ohms

Overvoltage Protection consists of 2 Metal Oxide Varistors on each leg of the telephone input

Diameter: 14 mm

Working Voltage: 300 Vrms

Max Clamping Voltage (8/20 uS): 775 [Volts@50A](#)

Max Surge Current (8/20 uS): 4500 Amps

Rated Power: 0.6 Watts

Max Energy (10/1000 uS): 125 Joules

Safety Approvals: UL/CSA/VDE/CQC

Document History

26 March 2011 – Version 1