

HyperLink Wireless Brand Indoor DIN 3 Rail Mount DSL/Telephone Lightning Surge Protector - Model: HGLND-D1-DT

Applications

- DSL / Telephone line
- T1 / E1 / J1 Telco lines

Features

- DIN 3 rail mountable
- 3-Stage surge protection
- Superior to diode or TVS only based designs
- Failsafe mode of operation
- Die Cast aluminum construction



Description

The HGLND-D1-DT high performance 3-stage lightning protector provides superior protection for DSL, Telephone and T1 lines from transients and surges.

The first stage is comprised of a differential gas discharge tube. Stage two is a pair of current limiting series resistors and the final stage is a low capacitance diode array. The use of three terminal differential gas discharge tubes provides superior common and differential mode protection against conducted transients versus the use of lower cost two terminal tubes. The second stage series resistance limits the power dissipation of the fast diode clamp array in the third stage. This allows time for the slower but higher power gas tubes to flash over. The diode array clamps the leading edge of fast transients to safe levels until the high power gas tubes turn on. This eliminates the damaging leading edge spike that single stage gas tube protectors let leak through. The diode array's low capacitance assures that the suppressor will not degrade the high-speed signals. The 3-stage design can handle higher-level transients than a protector that uses only diodes.

The HGLND-D1-DT is designed to convert into a failsafe mode in the rare case of a catastrophic surge or lightning event. For this mode, the resistors in the second stage will fuse and portions of the diode array will short. This effectively disconnects the line from sensitive equipment thus limiting damage. The units are factory repairable.

For more complete surge protection of data lines, the use of two units is recommended, one at each end of the line.

This unit can be mounted to a DIN 3 rail using the DIN mounting clip located on the rear of the unit.



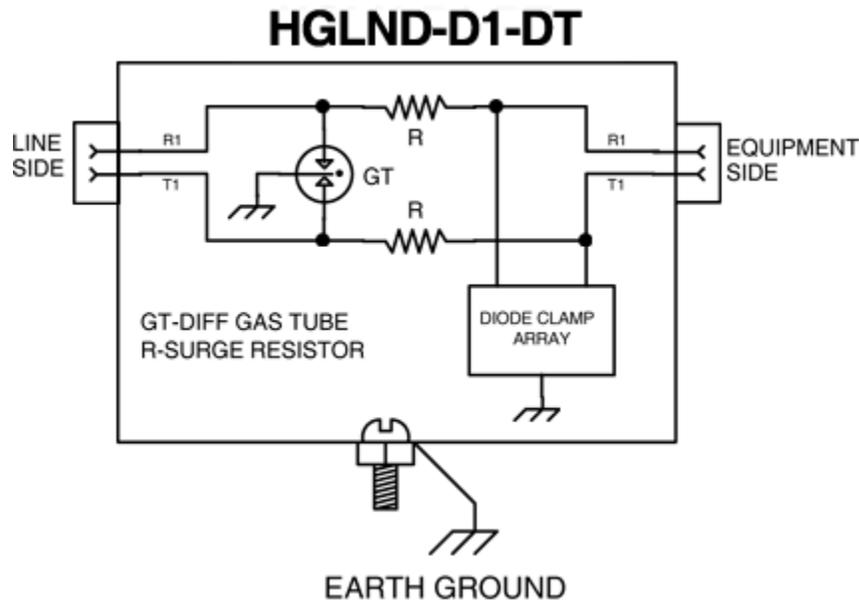
Specifications

Electrical Specifications

| | |
|---------------------------------|-----------------------------|
| Applications | Single DSL / Telephone Line |
| Connections | (2) Screw Terminals |
| Stage 1 Clamping Voltage | ± 230 volts |
| Stage 2 Resistance | 3.3 ohms |
| Stage 3 Clamping Voltage | ± 170 volts |

Mechanical Specifications

| | |
|------------------------------|-----------------------------------------------------|
| Enclosure Material | Cast Aluminum |
| DIN Mounting Clip | DIN 3 Rail |
| Ground Lug | 10 AWG Max. |
| Operating Temperature | -40 C (-40 F) to +80 C (+176 F) |
| Weight | .28 lbs. (.13 kg) |
| Dimensions (WxHxL) | 3.6 x 1.4 x 1.2 (inches) 91.4 x 35.5 x 38.1 (mm) |
| RoHS Compliant | Yes |



Custom Requirements

The HGLND-D1-DT can be optionally configured to protect differential or single ended data or control lines of other voltage levels. For sufficient volumes, an OEM version of the PCB assembly is available for integration into a user's product. Contact our sales department with your specific requirements or pricing for a volume purchase.