

## tii HNP6-X-T-C

### Home Networking Protector

Equipped with CATV Protection

One Fully Protected HomePlug® Compatible AC Receptacle

Five Fully Protected EMI Filtered AC Receptacles

Gas Discharge Tube & MOV Hybrid Circuit for AC Protection

Protection Available and Ground Present Status Indicators

Balanced Solid-State Protection for Telephone Service

Impedance Matched Solid State CATV Protection

High Surge Absorbing Capability Listed to UL 1449



tii network technologies

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tii HNP6-X-T-C

The tii HNP6-X-T-C Home Networking Protector provides total surge protection for CATV equipment while being 100% HomePlug® Network compatible. Traditional surge protectors interfere with data transmitted over AC wiring utilizing HomePlug® technology. tii's proprietary circuitry provides superior CATV while maintaining signal performance.

#### KEY PRODUCT BENEFITS

- ▶ Protects all connected equipment including HomePlug® data networks connected via existing AC wiring.
- ▶ One dedicated and protected HomePlug® compatible AC receptacle – it's as simple as plugging in HomePlug® enabled equipment.
- ▶ Five EMI filtered receptacles prevent unwanted electrical noises from being introduced into the circuit by peripheral devices. These noises have been proven to degrade signal transmission quality and speed.
- ▶ The tii HNP6-X-T-C Series is available with three basic protection circuits:
  - 120VAC, Single Phase, 50/60 Hz 15 Amp Power Line Protection
  - Balanced Solid-State Telephone Service Protection
  - Impedance matched CATV Protection
- ▶ The AC power protection section is a self restoring power line surge suppressor incorporating gas discharge tube and solid-state surge suppression elements.
- ▶ The surge absorbing capability of tii's HNP6-X-T-C exceeds maximum recommended surge levels by IEEE.
- ▶ All six AC receptacles are spaced to allow for ancillary device transformers.
- ▶ When plugged into an AC receptacle, the AC protection circuit monitors the integrity of the protection in addition to indicating the presence of a ground.

#### Protection and Ground Indicator Lamps

*Protection Available:* Green lamp "on" indicates protection circuit is operational.  
*Ground Present:* Green lamp "on" indicates there is a connection to the AC ground.  
*Ground Not Present:* Red lamp "on" indicates that the unit did not detect the presence of an AC ground. The surge protection capability of the tii HNP6-X-T-C has been compromised.

- ▶ The telephone line protection section is a proprietary self-restoring, solid-state surge suppressor incorporating critical fusing elements in the event of power cross conditions.
- ▶ Offered with one CATV protection circuit (two "F" type connectors). The CATV cable is protected by a TII solid state circuit optimized for 75 ohm impedance matching with superior signal transmission characteristics.
- ▶ Common grounding for the AC, TEL and CATV protection circuits serves as a ground potential equalizer eliminating any ground loop currents that may damage the connected equipment.
- ▶ All three protection circuits are grounded by means of the 6 ft. AC cord.

#### INDUSTRY STANDARDS

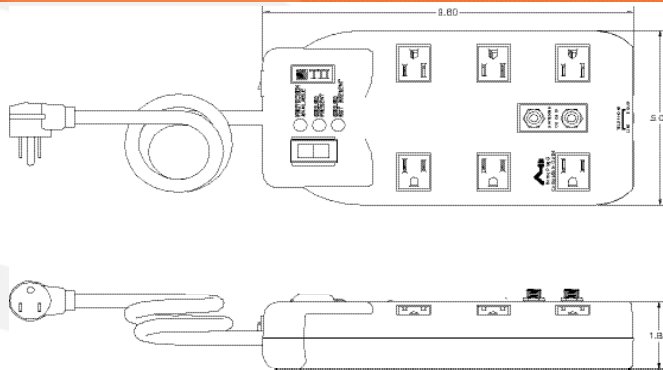
- ▶ Listed to UL 1449.
- ▶ Continuous Joule Rating (CJR): Estimate of cumulative surge energy absorbed by this device over its useful life.

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MEMBER

# tii HNP6-X-T-C



Patent No. 6,775,121  
and Patent Pending

Dimensions are in Inches

## SPECIFICATIONS

### SURGE SUPPRESSOR PERFORMANCE

#### AC SURGE SUPPRESSION

Insertion Loss (2 – 27 MHz) Single HomePlug® Compatible Receptacle (Compatible to Version 2.0-AV) Five EMI Filtered Receptacles	< 3 dB > 50 dB
Suppression Voltage - 500A, 8/20 $\mu$ s waveform (Line to Neutral) Steady State Clamping Voltage	700 V Max. 300 V
Maximum Surge Current 8/20 $\mu$ s waveform	20,000 A
Surge Energy Absorption Continuous Joule Rating (@500 A, 8/20 $\mu$ s, 1000 operations)	6240 J
LIFE TEST 5,000 A, 8/20 $\mu$ s waveform	100 Surges
Listed to	UL 1449

#### TELEPHONE LINE SURGE PROTECTOR PERFORMANCE

Rated for use on telephone lines with up to 120 V rms ringing. Coordinates with telco station protector.	
DC Breakdown T-G, R-G, T-R	300 V Typical
Surge Voltage @ 100 V/ $\mu$ s	400 V Max.
Line Resistance (per side)	< 1 Ohms
Insulation Resistance @ 100 V DC	100M Ohms Min.
TEL Line Jacks	Modular RJ-11 Jack
Evaluated by UL	UL 497A

#### 75 OHM CATV/ANTENNA PROTECTION

DC Breakdown (all modes)	< 2 V
Surge Voltage @ 100 V/ $\mu$ s	< 10 V
Insertion Loss DC - 1.0 GHz	< 0.1 dB
Return Loss DC - 1.0 GHz	> 15 dB

## ORDERING INFORMATION

Model No.	Description
tii HNP6-X-T-C	Home Networking Protector Powerline, Telephone and CATV Cable Protection
Standard Package:	10 pieces
Weight:	1.88 lbs. each