

GIGABIT PoE/ETHERNET SURGE PROTECTOR

BTU-POE-ETH SERIES



The **BTU-POE-ETH UL497B SPD** is designed to protect sensitive data-processing equipment connected to a Gigabit PoE/Ethernet network from transient over voltages.

The **BTU-POE-ETH** surge protector is deployed in signal network applications with data transmission speeds up to 1000 Mbps. The surge protector is housed in a shielded enclosure with high quality RJ45 shielded jacks.

The transient protection circuit is based on high energy gas discharge tubes (GDT's) and a network of fast response silicon avalanche diodes (SAD's) to achieve sharp clamping of very large surge events.

- Gigabit PoE/Ethernet Surge Protector
- 100 Base T/1000 Base T compatible
- Shielded enclosure and connectors
- 2 kA/pin discharge capability
- Max DC Current: 1.2A



FDOT APL Certification Number: 620-004-007

DIMENSIONS (IN MM)

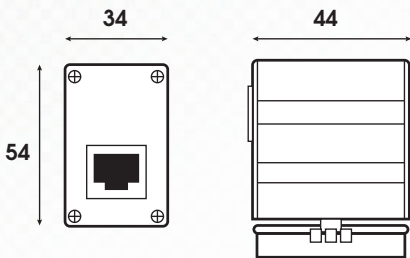
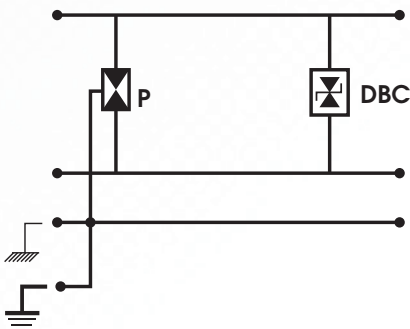
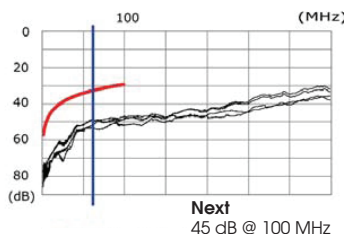
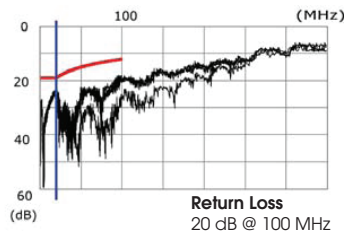
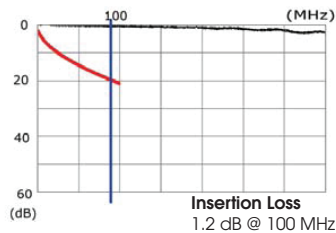


DIAGRAM FOR ONE PAIR



P: 3-electrode gas tube
DBC: 3-pole low-capacitance diode



red curve: maximum limit

CHARACTERISTICS

| | BTU-POE-ETH |
|-------------------------------|---|
| Application | Gigabit PoE/Ethernet Networks |
| Max. data rate | 1000 Mbps |
| Standard Compliance | IEEE 802-3ab (transmission) IEC 61000-4-5 (surge withstand) UL497B RoHS Compliant |
| Connections: | |
| -input | RJ45 shielded |
| -output | RJ45 shielded |
| Pinout | 8 wires + shielding |
| Max. DC Power Supply | 60 Vdc (4, 5, 7, 8) |
| Nominal discharge current | |
| -Line/Line | <500 A @ 8/20 μ s |
| -Line/Ground | 2000 A @ 8/20 μ s |
| Enclosure | Metal |
| Connection to bonding network | Din Rail or Ground Lug (included) |