



Outdoor Gigabit Power-Over-Ethernet (PoE) Surge Protectors

CMJ8-POE Series



CMJ8-POE-A



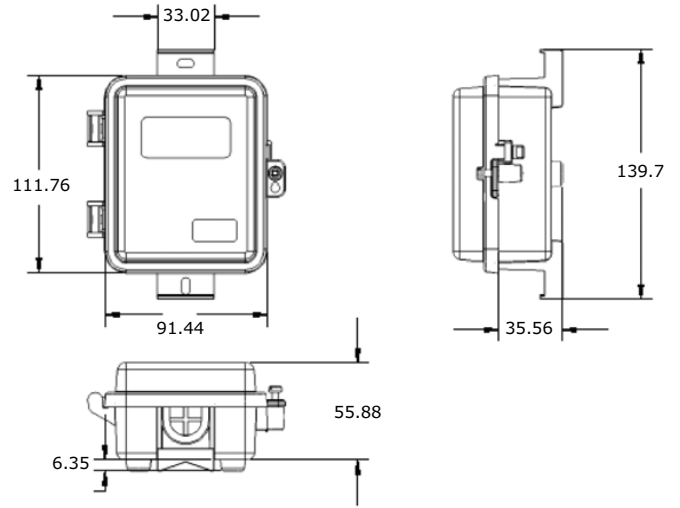
The CMJ8-POE is an outdoor PoE surge protector designed to protect sensitive data-processing equipment connected to a PoE (Power over Ethernet) network from transient over voltages. The CMJ8-POE surge protector is deployed in signal network applications with data transmission speeds up to 1000 Mbps and is equipped with high quality shielded RJ45 connectors. The transient protection circuit is based on high energy gas discharge tubes (GDT) and a network of fast response silicon avalanche diodes (SAD's) to achieve sharp clamping of very large surge events.

- 10 Base T/ 100 Base T / 1000 Base T compatible
- Shielded RJ45 connectors
- 2 kA discharge capability
- IEC 61643-21
- UL497B

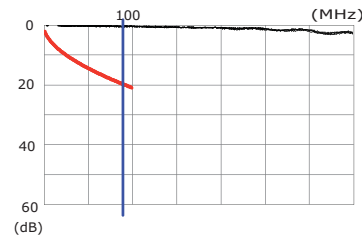
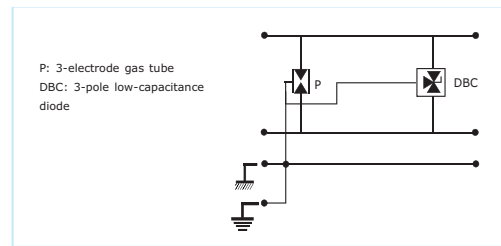
Characteristics

| CITEL part number | CMJ8-POE-A | CMJ8-POE-B |
|-------------------------------|---|---|
| Application | PoE and Gigabit Ethernet Networks | PoE and Gigabit Ethernet Networks |
| Max. data rate | 1000 Mbps - CAT 5E | 1000 Mbps - CAT 5E |
| Standard Compliance | IEEE 802.3 af (transmission) IEC 61000-4-5 (surge withstand) | IEEE 802.3 af (transmission) IEC 61000-4-5 (surge withstand) |
| Connections: | | |
| -input | RJ45 shielded | RJ45 shielded |
| -output | RJ45 shielded | RJ45 shielded |
| Pinout | 8 wires + shielding | 8 wires + shielding |
| Max. DC Power Supply | 60 Vdc - 650 mA | 7.5 Vdc (1,2,3,6) - 650 mA 60 Vdc (4,5,7,8) - 650 mA |
| Nominal discharge currents: | | |
| -Line/Line | <500 A @ 8/20 μs | <500 A @ 8/20 μs |
| -Line/Ground | 2000 A @ 8/20 μs | 2000 A @ 8/20 μs |
| PCB part# | CMJ8-POE-A/PCB | CMJ8-POE-B/PCB |
| Connection to bonding network | Screw Terminal | Screw Terminal |

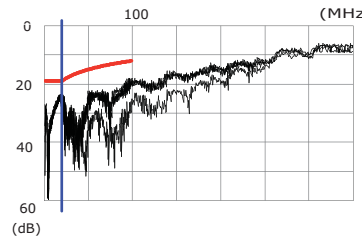
Dimensions (in mm)



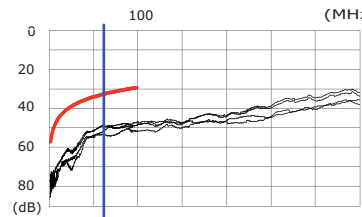
Electrical Diagram (each pair)



Insertion Loss
1.2 dB @ 100 MHz



Return Loss
20 dB @ 100 MHz



NEXT
45dB @ 100 MHz

red curve: maximum limit