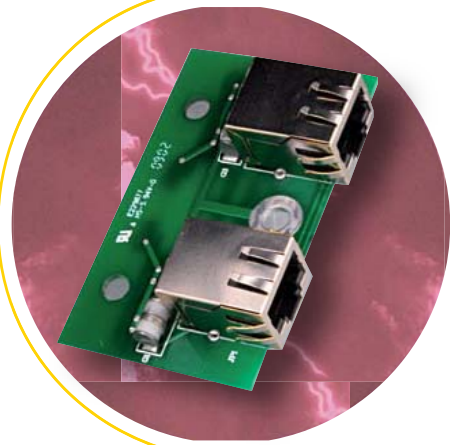


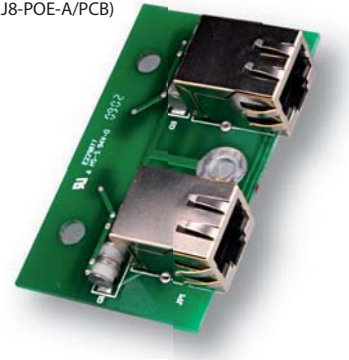
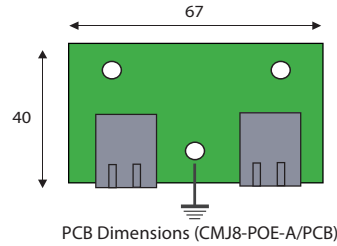


Gigabit PoE Surge Protector PCB

CMJ8-POE-A/PCB



Dimensions (mm)



The CMJ8-POE-A/PCB is a PC board designed to protect sensitive data-processing equipment connected to a sensitive network from transient over voltages.

The CMJ8-POE-A/PCB surge protector is deployed in signal network network applications with data transmission speeds up to 1000 Mbps and is equipped with high quality shielded RJ45 connectors.

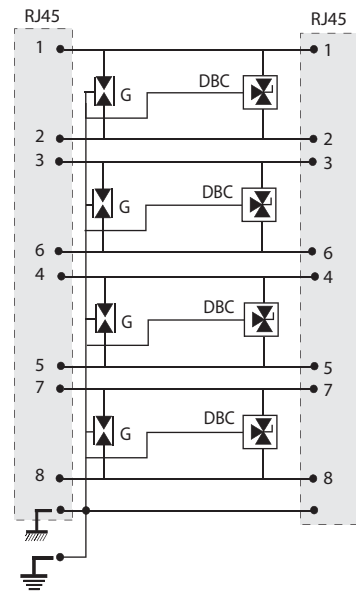
This PCB is designed to fit inside a specific enclosure for outdoor use. The transient protection circuit is based on high energy gas discharge tubes (GDT) and a network of fast response silicon avalanche diodes (SAD's) to achieve sharp clamping of very large surge events.

- Surge protection for PoE & Gigabit Ethernet networks
- 100BaseT/1000BaseT compatible
- Shielded RJ45 connectors
- Discharge capability of 2kA
- Outdoor enclosure available for outdoor use

Characteristics

CITEL part number	CMJ8-POE-A/PCB
Application	PoE and Gigabit Ethernet Networks
Max. data rate	1000 Mbps - CAT 5E
Standard Compliance	IEEE 802.3af (transmission) IEC 61000-4-5 (surge withstand)
Connections :	
- input	Shielded RJ45
- output	Shielded RJ45
Pinout	8 wires + shield
Max operating voltage	60 Vdc on all pairs
Max DC Power supply	60 Vdc - 650 mA
Nominal discharge currents :	
- Line/Line	<500 A @ 8/20 μs
- Line/Ground	2000 A @ 8/20 μs
Response time Line/Line	< 5 ns
Response time Line/Ground	< 100 ns
Outdoor unit part #	CMJ8-POE-A
Connection to bonding network	screw terminal

Electrical Diagram



G : 3-electrode gas tube
DBC: 3-pole very low-capacitance diode