



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

### CMJ8-POE Series



CMJ8-POE-A



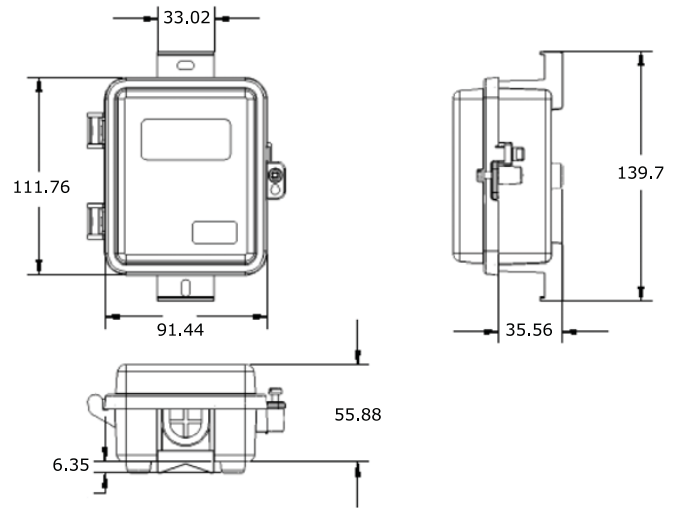
The CMJ8-POE is an outdoor PoE surge protector designed to protect sensitive data-processing equipment connected to a PoE (Power over Ethernet) network from transient over voltages. The CMJ8-POE surge protector is deployed in signal network applications with data transmission speeds up to 1000 Mbps and 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

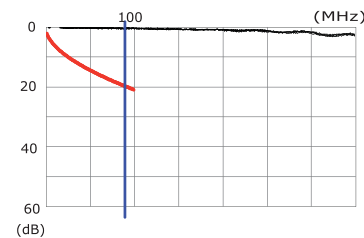
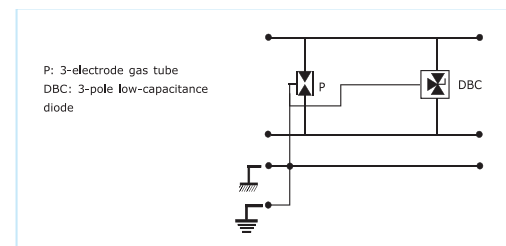
### Characteristics

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 $\mu$ s	<500 A @ 8/20 $\mu$ s
-Line/Ground	2000 A @ 8/20 $\mu$ s	2000 A @ 8/20 $\mu$ s
PCB part#	CMJ8-POE-A/PCB	CMJ8-POE-B/PCB
Connection to bonding network	Screw Terminal	Screw Terminal

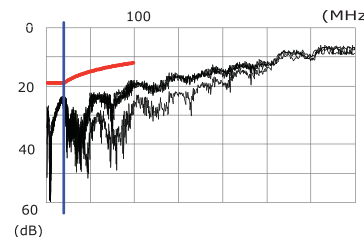
### Dimensions (in mm)



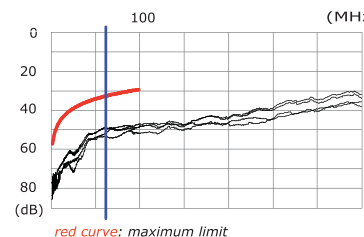
### Electrical Diagram (each pair)



**Insertion Loss**  
1.2 dB @ 100 MHz



**Return Loss**  
20 dB @ 100 MHz



**NEXT**  
45dB @ 100 MHz

red curve: maximum limit