

# Dataline Surge Protectors

## CMJ8-POE Series



- Outdoor Power Over Ethernet Surge Protective Device
- IP Rated Enclosures
- Hybrid GDT and Diode Technology
- Supports Up To 10 Gb/s Data Transmission Speeds
- Shielded Connectors
- High POE
- Bi-Directional Protection
- UL497B Listed

CXMJ8-POE-X-XXX

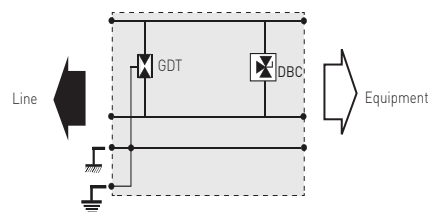
Max. Speed: C5 = 100 MB/s, C5E = 1 GB/s, C6 = 10GB/s  
POE Type: A, B

Enclosure Type: < > = Plastic, G = Plastic With Gasket  
R = Metal with Gasket

## Enclosure Characteristics

| Enclosure                     | CMJ8                                                      | CGMJ8              | CRMJ8           |
|-------------------------------|-----------------------------------------------------------|--------------------|-----------------|
| Dimensions                    | 4.5 x 3.5 x 2.5 in                                        | 4.5 x 3.5 x 2.5 in | 5.9 x 4.3 x 3.9 |
| Gasket                        | None                                                      | Yes                | Yes             |
| Mounting                      | Attached pole mount brackets for surface or pole mounting |                    |                 |
| Protection Class              | IP65                                                      | IP66               | IP67            |
| Connections:                  |                                                           |                    |                 |
| - Input                       | RJ45 Shielded                                             |                    |                 |
| - Output                      | RJ45 Shielded                                             |                    |                 |
| Pinout                        | 8 wires + shielding                                       |                    |                 |
| Enclosure                     | IP Rated Plastic                                          |                    |                 |
| Connection to Bonding Network | Round Screw Terminal                                      |                    |                 |
| Standard Compliance           | UL497B, IEEE 802-3t, IEC 61000-4-5                        |                    |                 |

## Electrical Diagram Principle



GDT : 3-Electrode gas discharge tube  
DBC : 3-Pole low capacitance diode

## Performance Characteristics

| Board Type                                               | POE-A-C5       | POE-B-C5       | POE-A-C5E    | POE-B-C5E    | POE-C6       |
|----------------------------------------------------------|----------------|----------------|--------------|--------------|--------------|
| Maximum Data Rate                                        | 100 Mbp/s CAT5 | 100 Mbp/s CAT5 | 1 Gb/s CAT5E | 1 Gb/s CAT5E | 10 Gb/s CAT6 |
| Max Voltage on Pins (1-2) (3-6) (4-5) (7-8) (POE & Data) | 60V            | 7.5V<br>60V    | 60V          | 7.5V<br>60V  | 60V          |
| Max Current (1-2) (3-6) (4-5) (7-8) High POE             | 1.2A<br>NA     | NA<br>1.2A     | 1.2A<br>NA   | NA<br>1.2A   | 1.2A<br>NA   |
| Nominal Discharge Currents (at 8/20 $\mu$ s)             |                |                |              |              |              |
| - Line/Lines                                             | 500A           | 500A           | 500A         | 500A         | 500A         |
| - Line/Ground (Per Line)                                 | 2,000A         | 2,000A         | 2,000A       | 2,000A       | 2,000A       |
| - Lines/Ground (Total)                                   | 16,000A        | 16,000A        | 16,000A      | 16,000A      | 16,000A      |
| Clamping Voltage (1-2) (3-6) (4-5) (7-8) Between Lines   | 70V            | 10V<br>70V     | 70V          | 10V<br>70V   | 10V<br>70V   |
| DC Sparkover Voltage Between Lines and Ground            | 71-108V        | 71-108V        | 71-108V      | 71-108V      | 71-108V      |

## Part Numbers

| CITEL Part Name | Part Number |
|-----------------|-------------|
| CMJ8-POE-A-C5   | 6211        |
| CMJ8-POE-B-C5   | 6212        |
| CGMJ8-POE-A-C5  | 892000      |
| CGMJ8-POE-B-C5  | 892001      |
| CMJ8-POE-A-C5E  | 892002      |
| CMJ8-POE-B-C5E  | 892003      |
| CGMJ8-POE-A-C5E | 892004      |
| CGMJ8-POE-B-C5E | 892005      |
| CRMJ8-POE-C6    | 581529      |