



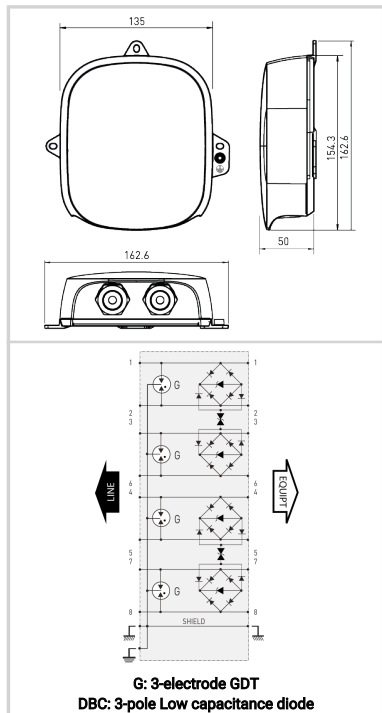
# CITEL



## 10 gigabit POE ++ surge protector

### CWMJ8-POE-C6A

- ▶ POE++ Compatible (IEEE 802.3bt) -10Gb (5-100m) with Cat6A S/FTP cabling
- ▶ Shielded RJ45 connectors
- ▶ Outdoor applications, IP66 (NEMA 4/4X)
- ▶ Plastic enclosure, UL94-V0
- ▶ Conforms to IEC/EN 61643-21
- ▶ SPD categories D1, C3, C2, C1
- ▶ 16kA total surge discharge capability



| Electrical Characteristics                                                                          |               |  |                                                                              |
|-----------------------------------------------------------------------------------------------------|---------------|--|------------------------------------------------------------------------------|
| Network                                                                                             |               |  | 10Gb/s on Cat6A S/FTP cabling                                                |
| Protection modes (network)                                                                          |               |  | CM / DM                                                                      |
| Protection modes (POE)                                                                              |               |  | CM / DM (common mode / differential mode)                                    |
| Transmission standard                                                                               |               |  | IEEE 802.3bt                                                                 |
| Lightning Protection Zones (LPZ)                                                                    |               |  | 0 - 3                                                                        |
| Max. operating voltage (DATA)                                                                       | Uc            |  | 8 Vdc                                                                        |
| Max. operating voltage (POE)                                                                        | Uc            |  | 60 Vdc                                                                       |
| Max. frequency                                                                                      | f max.        |  | 500 MHz                                                                      |
| Max. data rate                                                                                      |               |  | 10 Gbps                                                                      |
| Max. load current @25°C                                                                             | IL            |  | 2 A                                                                          |
| Max. POE power (4PPOE)                                                                              |               |  | 90 W                                                                         |
| Nominal discharge current<br>C1 (1.2/50us / 8/20us), 300 applications X-X (Line/Line)               | In            |  | 1kV / 500A                                                                   |
| Nominal discharge current<br>C1 (1.2/50us / 8/20us), 300 applications, X-C (Pair-Pair, POE)         | In            |  | 200 V / 100 A                                                                |
| Nominal discharge current<br>C2 (1.2/50us / 8/20us), 10 applications X-C (Line/Earth)               | In            |  | 4 kV / 2 kA                                                                  |
| Max. discharge current<br>max. withstand @ 8/20 us, X-C (Line/Earth)                                | Imax          |  | 2 kA                                                                         |
| Max. discharge current<br>max. withstand @ 8/20 us, 8X-C (1&amp;2+3&amp;6+4&amp;5+7&amp;8 to Earth) | Imax<br>Total |  | 16 kA                                                                        |
| Protection Level<br>C3 (10/1000us), 300 applications@10 A, Y-Y (Line/Line)                          | Up            |  | ≤ 20 V                                                                       |
| Protection Level<br>C3 (10/1000us), 300 applications @ 10A, (Pair-Pair, POE)                        | Up            |  | < 100 V                                                                      |
| Protection Level<br>C3 (10/1000us), 300 applications@10 A, Y-C (Line/Earth)                         | Up            |  | < 70 V                                                                       |
| Impulse current<br>D1 (10/350us), 2 applications, X-C (Line/Earth)                                  | limp          |  | 500 A                                                                        |
| Line resistance (± 10%)                                                                             |               |  | ~ 0 ohms                                                                     |
| Capacitance<br>@1MHz, X-C (Line/Earth)                                                              | C             |  | < 5 pF                                                                       |
| Mechanical Characteristics                                                                          |               |  |                                                                              |
| Technology                                                                                          |               |  | GDT+TVS diode                                                                |
| SPD configuration                                                                                   |               |  | 8 wires+shielded                                                             |
| Connection to Network                                                                               |               |  | RJ45 shielded connectors Female input/output                                 |
| Cable glands                                                                                        |               |  | Plastic/Rubber                                                               |
| Format                                                                                              |               |  | Plastic Enclosure with connectors input/output                               |
| Mounting                                                                                            |               |  | Wall / Plate                                                                 |
| Housing material                                                                                    |               |  | Thermoplastic UL94 V-0                                                       |
| Operating temperature                                                                               | Tu            |  | -40/+85°C                                                                    |
| Ingress Protection rating                                                                           |               |  | IP66 (NEMA 4/4X)                                                             |
| Failsafe mode                                                                                       |               |  | Transmission cut-off - Fault mode 2 (short-circuit)                          |
| Pinout                                                                                              |               |  | (1-2)(3-6)(4-5)(7-8)                                                         |
| Dimensions                                                                                          |               |  | See diagram                                                                  |
| Weight                                                                                              |               |  | 0.29 kg / 0.64 lbs                                                           |
| Standards                                                                                           |               |  |                                                                              |
| Standards compliance                                                                                |               |  | IEC 61643-21 / EN 61643-21 / UL497B / IEEE 802.3af/3at/3bt, ANSI/TIA-568-c.1 |
| UL Category                                                                                         |               |  | QVGQ - Isolated Loop Circuit Protectors                                      |
| UL File Number                                                                                      |               |  | E184939                                                                      |
| Certification                                                                                       |               |  | UL Listed                                                                    |
| Environmental standards                                                                             |               |  | EU RoHS                                                                      |
| Part number                                                                                         |               |  |                                                                              |
| 581544                                                                                              |               |  |                                                                              |

