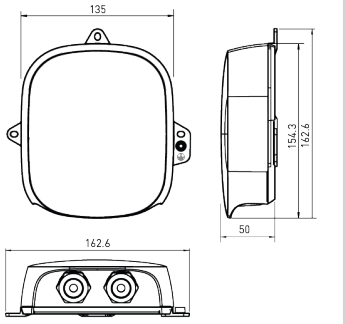
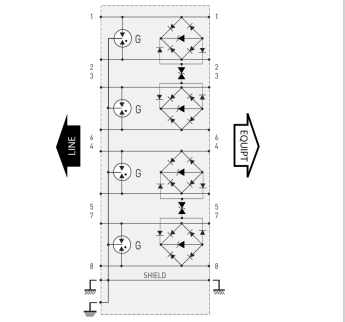
*10 gigabit POE ++ surge protector*

# 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




**G: 3-electrode GDT**
**DBC: 3-pole Low capacitance diode**

| 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 / 8/20µs), 300 applications X-X (Line/Line)* | In | 1kV / 500A |
| Nominal discharge current<br>*C1 (1.2/50us / 8/20µs), 300 applications, X-C (Pair-Pair, POE)* | In | 200 V / 100 A |
| Nominal discharge current<br>*C2 (1.2/50us / 8/20µs), 10 applications X-C (Line/Earth)* | In | 4 kV / 2 kA |
| Max. discharge current<br>*max. withstand @ 8/20 µs, X-C (Line/Earth)* | Imax | 2 kA |
| Max. discharge current<br>*max. withstand @ 8/20 µs, 8X-C (1&2+3&6+4& 5+7&8 to Earth)* | Imax Total | 16 kA |
| Protection Level<br>*C3 (10/1000µs), 300 applications@10 A, Y-Y (Line/Line)* | Up | ≤ 20 V |
| Protection Level<br>*C3 (10/1000µs), 300 applications @ 10A, (Pair-Pair, POE)* | Up | < 100 V |
| Protection Level<br>*C3 (10/1000µs), 300 applications@10 A, Y-C (Line/Earth)* | Up | < 70 V |
| Impulse current<br>*D1 (10/350µs), 2 applications, X-C (Line/Earth)* | Iimp | 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** | | |