

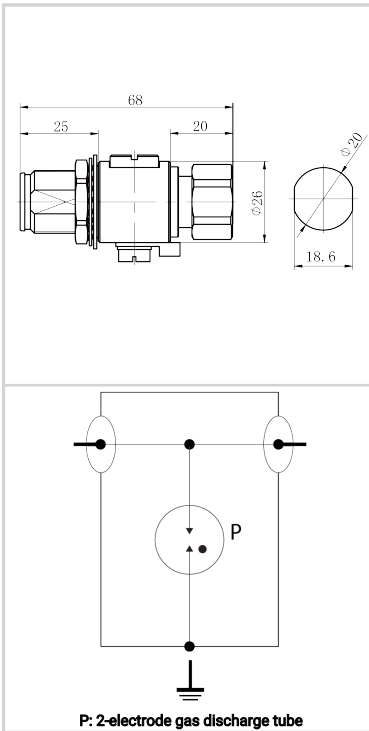


# P8AX50-4310/MF

# CITEL



►6GHz Bi-Directional Coaxial Surge Protector - High Energy GDT Technology - Low Insertion Loss - Field Replaceable GDT - Waterproof Design - DC Pass - UL497E Listed



| Electrical Characteristics  |                  |                                  |  |
|---|------------------|----------------------------------|--|
| Max. DC operating voltage   | Uc               | 400 Vdc                          |  |
| Frequency range   | f                | DC-3.5 GHz                       |  |
| Insertion loss  |                  | < 0.2 dB                         |  |
| Return loss   |                  | > 20 dB                          |  |
| Impedance   |                  | 50 ohms                          |  |
| VSWR  |                  | <1.2:1                           |  |
| Max. load current @25°C   | IL               | 10 A                             |  |
| Max. discharge current<br>max. withstand @ 8/20 μs by pole              | I <sub>max</sub> | 20 kA                            |  |
| Nominal discharge current<br>C2 Category                                | I <sub>n</sub>   | 5 kA                             |  |
| Protection mode(s)  |                  | Common mode                      |  |
| Protection level<br>@1kV/μs (C3)  | U <sub>p</sub>   | < 1200 V                         |  |
| Impulse current<br>2 x 10/350μs Test - D1 Category                      | I <sub>imp</sub> | 1 kA                             |  |
| Max Power   |                  | 619 W                            |  |
| Typical let through energy<br>(50 ohms) input 4kV 1.2/50μs - 2kA 8/20μs |                  | 1100 μJ                          |  |
| DC Pass   |                  | Yes                              |  |
| Insulation resistance   | IR               | ≥10 GOhms                        |  |
| RF Power<br>Maximum   | W                | 25.0000                          |  |
| Return Loss<br>Minimum  | db               | 20                               |  |
| VSWR<br>Maximum   | :1               | <1.2:1                           |  |
| Max Total Discharge Current<br>I <sub>max</sub> (8/20μs x 1)            | kA               | 10.0000                          |  |
| Max Discharge Current<br>I <sub>max</sub> (8/20μs x 1)                  | kA               | 10.0000                          |  |
| RF SPD TYPE   |                  | UL497E LISTED                    |  |
| VOLTS   | (V)              | 48                               |  |
| AC/DC/DC PV/RF  |                  | RF                               |  |
| WIRES   |                  | 1W+GROUND                        |  |
| LINE CURRENT MAX  | (A)              | 10                               |  |
| AMBIENT MIN   | (C)              | -40                              |  |
| AMBIENT MAX   | (C)              | +85                              |  |
| IMAX<br>8/20μs  | (kA)             | 20                               |  |
| FREQUENCY RANGE   | (GHz)            | 0-4.0                            |  |
| INSERTION LOSS (@ FREQ)   | (db)             | <0.2                             |  |
| RETURN LOSS   | (db)             | 22                               |  |
| VSWR  |                  | <1.25:1                          |  |
| Installation  |                  |                                  |  |
| Operating Temperature <sub>Min</sub>                                    | °C               | -45.0000                         |  |
| Operating Temperature <sub>Max</sub>                                    | °C               | 85.0000                          |  |
| Operating Temperature <sub>Min</sub>                                    | °F               | -50.0000                         |  |
| Operating Temperature <sub>Max</sub>                                    | °F               | 85.0000                          |  |
| Operating Relative Humidity <sub>Max</sub>                              | %RH              | Can be submerged                 |  |
| Operating Altitude <sub>Min</sub>                                       | Ft               | 2000.0000                        |  |
| Operating Altitude <sub>Max</sub>                                       | Ft               | 6500.0000                        |  |
| Housing/Enclosure material  |                  | Cu, Zn, Sn plated Brass          |  |
| Mounting  |                  | Bracket or Bulkhead through-hole |  |
| IP Environmental rating/IP  |                  | IP65                             |  |
| NEMA Environmental rating/NEMA  |                  | NEMA 4                           |  |
| Installation Location   |                  | Indoor / outdoor                 |  |
| Spare part  |                  | BB HF 90/20                      |  |



# CITEL

## P8AX50-4310/MF

|                                   |    |                                      |
|-----------------------------------|----|--------------------------------------|
| <b>Accessories</b>                |    | BK series mounting bracket           |
| Product DimensionL                | mm | 73.0000                              |
| Product DimensionH                | mm | 36.0000                              |
| Product DimensionW                | mm | 26.5000                              |
| Product DimensionL                | In | 2.8700                               |
| Product DimensionH                | In | 1.4200                               |
| Product DimensionW                | In | 1.0400                               |
| <b>Miscellaneous</b>              |    |                                      |
| Individual Pack                   |    | No                                   |
| Storage TemperatureMin            | °C | -40.0000                             |
| Storage TemperatureMax            | °C | 85.0000                              |
| Storage TemperatureMin            | °F | -40.0000                             |
| Storage TemperatureMax            | °F | 85.0000                              |
| <b>Mechanical Characteristics</b> |    |                                      |
| Technology                        |    | Gas discharge tube                   |
| Connection to Network             |    | Connector 4.3-10 Male/Female         |
| Mounting                          |    | Bulkhead or Bracket                  |
| Operating temperature             | Tu | -40/+85°C                            |
| Protection rating                 |    | IP65                                 |
| Failsafe mode                     |    | Short-circuit                        |
| Contacts                          |    | Bronze/Surface Au-Ag                 |
| Insulation material               |    | PTFE                                 |
| TECHNOLOGY                        |    | GDT                                  |
| CONNECTION METHOD                 |    | SERIES CONNECTOR, BI-DIRECTIONAL     |
| MOUNTING                          |    | BULKHEAD, OPTIONAL BRACKET           |
| MATERIAL                          |    | Housing-Cu, Zn, Sn plated Brass      |
| NEMA RATING (IP RATING)           |    | NEMA 6P (IP67)                       |
| DIMENSIONS                        |    | See diagram                          |
| WEIGHT                            |    | 0.30 lbs                             |
| <b>Standards</b>                  |    |                                      |
| Environmental standards           |    | EU RoHS                              |
| RohS compliance                   |    | Yes                                  |
| UL STANDARD                       |    | UL497E                               |
| UL CATEGORY                       |    | QVLA                                 |
| UL FILE NUMBER                    |    | E349646                              |
| STANDARDS                         |    | NOM-003-SCFI-2014, NOM-001-SCFI-1993 |
| <b>Part number</b>                |    |                                      |
| <b>60907</b>                      |    |                                      |

