



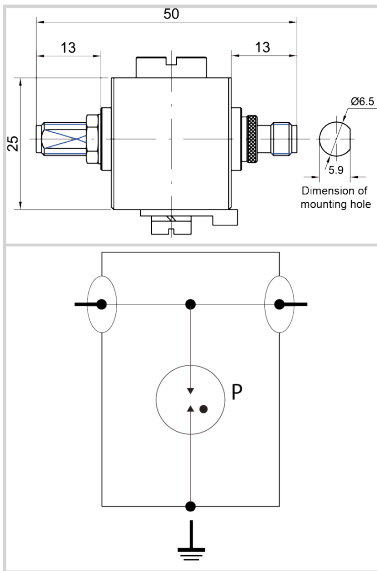
# CITEL

**- UL497E LISTED - I<sub>max</sub> 20kA (10kA UL) - I<sub>n</sub> 10kA (10kA UL) - Bi-directional - Replaceable Gas Tube**

## P8AX09-6G-SMA/FF



- Gas Discharge Tube Technology, DC Pass
- Frequency Range 0-6 GHz
- I<sub>max</sub> 20kA, 10kA (UL), I<sub>n</sub> 10kA
- IP67 Outdoor Rated
- SMA Type Connector
- Bi-Directional
- Replaceable Gas Tube



### Electrical Characteristics

|  |                  |               |
|--|------------------|---------------|
| Max. DC operating voltage  | U <sub>c</sub>   | 120 Vdc       |
| Frequency range  | f                | DC-6 GHz      |
| Insertion loss   |                  | < 0.3dB       |
| Return loss  |                  | > 18 dB       |
| Impedance  |                  | 50 ohms       |
| VSWR   |                  | <1.3:1        |
| Max. load current @25°C  | I <sub>L</sub>   | 10 A          |
| Max. discharge current<br><i>max. withstand @ 8/20 μs by pole</i>                | I <sub>max</sub> | 15 kA         |
| Nominal discharge current<br><i>C2 Category</i>                                  | I <sub>n</sub>   | 5 kA          |
| Protection mode(s)   |                  | Common mode   |
| Impulse current<br><i>2 x 10/350 μs Test - D1 Category</i>                       | I <sub>imp</sub> | 1 kA          |
| Max Power  |                  | 25 W          |
| Typical let through energy<br><i>(50 ohms) input 4kV 1.2/50 μs - 2kA 8/20 μs</i> |                  | 2.2 mJ        |
| DC Pass  |                  | Yes           |
| Insulation resistance  | I <sub>R</sub>   | ≥10 GOhms     |
| 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><i>8/20 μs</i>   | (kA)             | 20            |
| FREQUENCY RANGE  | (GHz)            | 0-6.9         |
| INSERTION LOSS (@ FREQ)  | (db)             | <0.2          |
| RETURN LOSS  | (db)             | 22            |
| VSWR   |                  | <1.25:1       |

### Mechanical Characteristics

|                         |                |                                  |
|-------------------------|----------------|----------------------------------|
| Technology              |                | Gas discharge tube               |
| Connection to Network   |                | Connector SMA Female/Female      |
| Mounting                |                | Feedthrough                      |
| Operating temperature   | T <sub>u</sub> | -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                |                | Cu, Zn, Sn plated Brass, PTFE    |
| NEMA RATING (IP RATING) |                | NEMA 6P (IP67)                   |
| DIMENSIONS              |                | See diagram                      |
| WEIGHT                  |                | 0.30 lbs                         |

### Standards

|                         |  |         |
|-------------------------|--|---------|
| Environmental standards |  | EU RoHS |
| RohS compliance         |  | Yes     |

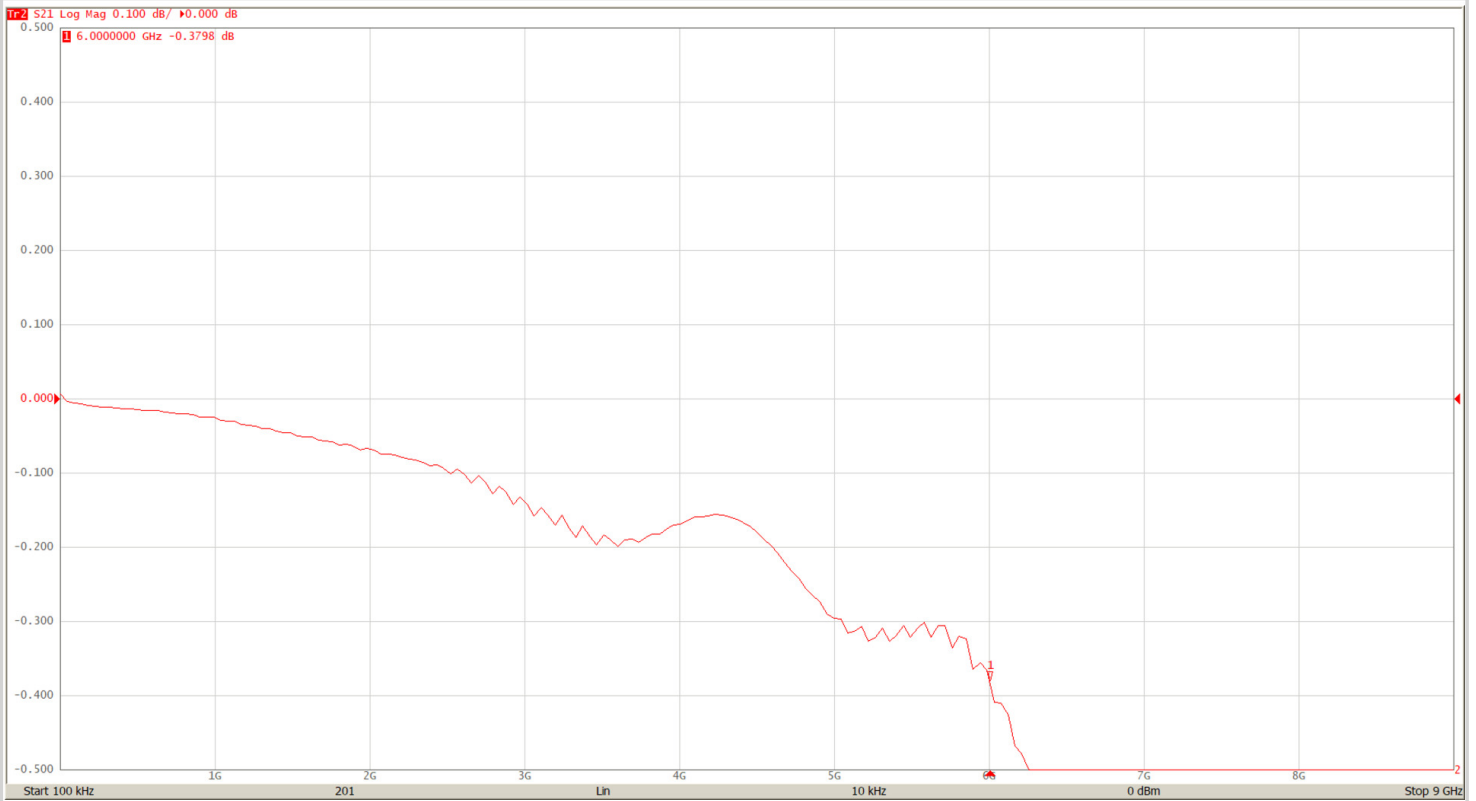
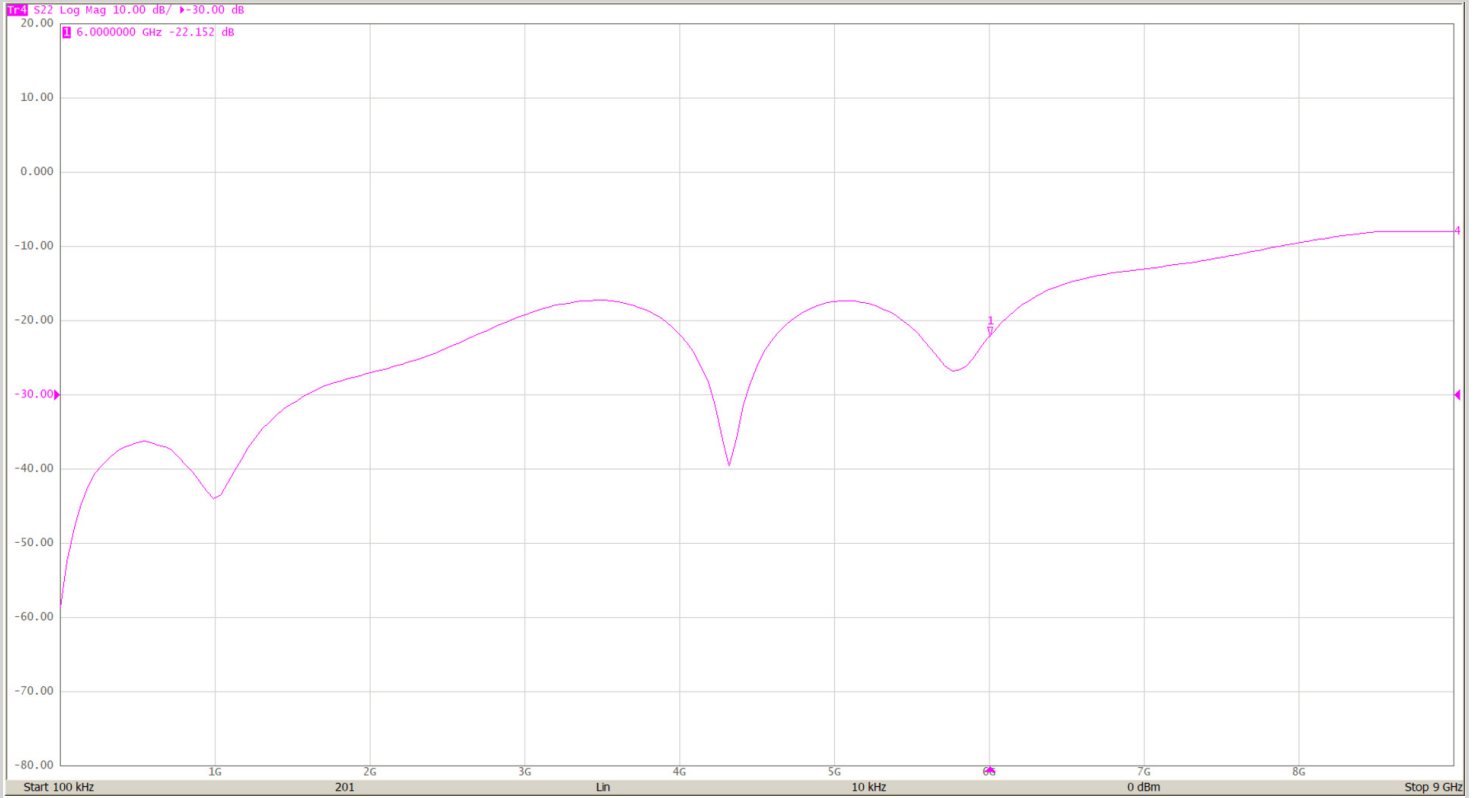


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|                    |                                      |
|--------------------|--------------------------------------|
| UL STANDARD        | UL497E                               |
| UL CATEGORY        | QVLA                                 |
| UL FILE NUMBER     | E349646                              |
| STANDARDS          | NOM-003-SCFI-2014, NOM-001-SCFI-1993 |
| <b>Part number</b> | <b>68511</b>                         |





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