



# CITEL

## 'Quarter wave' coaxial protector

### PRC900-N/MF



- 'Quarter wave' coaxial protector type N
- Frequency : 870-960 MHz
- Low insertion loss
- I<sub>max</sub> > 50 kA
- Maintenance free
- Bi-directional
- IP65



| Electrical Characteristics  |                  |                                     |
|---|------------------|-------------------------------------|
| Frequency range   | f                | 870-960 MHz                         |
| 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><i>max. withstand @ 8/20 μs by pole</i> | I <sub>max</sub> | 50 kA                               |
| Nominal discharge current<br><i>C2 Category</i>                   | I <sub>n</sub>   | 25 kA                               |
| Protection mode(s)  |                  | Common mode                         |
| Protection level<br><i>@ I<sub>n</sub> (8/20μs)</i>               | Up               | < 30 V                              |
| Impulse current<br><i>2 x 10/350μs Test - D1 Category</i>         | I <sub>imp</sub> | 25 kA                               |
| Max Power @f max.   |                  | 415 W                               |
| Max Power @f mini.  |                  | 436 W                               |
| PIM 3rd order (2x20W)   |                  | < -160 dBc                          |
| DC Pass   |                  | No                                  |
| Mechanical Characteristics  |                  |                                     |
| Technology  |                  | Quarter Wave                        |
| Connection to Network   |                  | Connector N Male/Female             |
| Mounting  |                  | Connector                           |
| Housing material  |                  | Brass/Surface plating: Cu Zn Sn     |
| Operating temperature   | Tu               | -40/+85°C                           |
| Protection rating   |                  | IP65                                |
| Failsafe mode   |                  | Without                             |
| Dimensions  |                  | See diagram                         |
| Contacts  |                  | Bronze/Surface Au-Ag                |
| Standards   |                  |                                     |
| Standards compliance  |                  | IEC 61643-21 / EN 61643-21 / UL497E |
| RohS compliance   |                  | Yes                                 |
| Part number   |                  |                                     |
| <b>621111</b>   |                  |                                     |

