



# CITEL

## 'Quarter wave' coaxial protector

### PRC1800-716/MF



- › 'Quarter wave' coaxial protector type 7/16
- › Frequency : 1700-1950 MHz
- › Low insertion loss
- ›  $I_{max} > 50$  kA
- › Maintenance free
- › Bi-directional
- › IP65



| Electrical Characteristics                                      |                  |                                     |
|-----------------------------------------------------------------|------------------|-------------------------------------|
| Frequency range                                                 | f                | 1700-1950 MHz                       |
| Insertion loss                                                  |                  | < 0.2 dB                            |
| Return loss                                                     |                  | > 20 dB                             |
| Impedance                                                       |                  | 50 ohms                             |
| VSWR                                                            |                  | <1.2:1                              |
| Max. load current<br>@25°C                                      | IL               | 10 A                                |
| Max. discharge current<br>max. withstand @ 8/20 $\mu$ s by pole | I <sub>max</sub> | 100 kA                              |
| Protection mode(s)                                              |                  | Common mode/Differential mode       |
| Protection level<br>@ I <sub>n</sub> (8/20 $\mu$ s)             | Up               | < 30 V                              |
| Impulse current<br>2 x 10/350 $\mu$ s Test - D1 Category        | I <sub>imp</sub> | 50 kA                               |
| Nominal discharge current<br>C2 Category                        | I <sub>n</sub>   | 25 kA                               |
| Max Power @f max.                                               |                  | 1895 W                              |
| Max Power @f mini.                                              |                  | 2030 W                              |
| PIM 3rd order (2x20W)                                           |                  | < -160 dBc                          |
| DC Pass                                                         |                  | No                                  |
| Mechanical Characteristics                                      |                  |                                     |
| Technology                                                      |                  | Quarter Wave                        |
| Connection to Network                                           |                  | Connector 7/16 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                                                     |                  |                                     |
| 621108                                                          |                  |                                     |

