



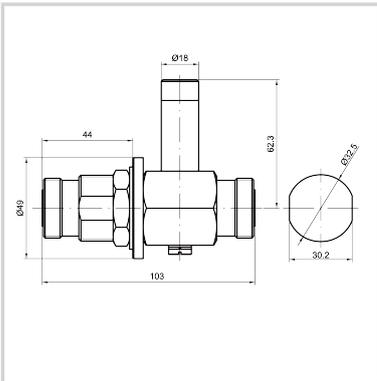
# CITEL

## 'Quarter wave' coaxial protector

### PRC822S-716W/FF



- › 'Quarter wave' coaxial protector type 7/16
- › Frequency : 800-2200 MHz
- › Low insertion loss
- ›  $I_{max} > 50$  kA
- › Maintenance free
- › Bi-directional
- › IP65



#### Electrical Characteristics

Frequency range	f	800-2200 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 <i>max. withstand @ 8/20 µs by pole</i>	$I_{max}$	100 kA
Nominal discharge current <i>C2 Category</i>	$I_n$	50 kA
Protection mode(s)		Common mode
Protection level <i>@ <math>I_n</math> (8/20µs)</i>	Up	< 30 V
Impulse current <i>2 x 10/350µs Test - D1 Category</i>	$I_{imp}$	50 kA
Max Power @f max.		1785 W
Max Power @f mini.		2959 W
PIM 3rd order (2x20W)		< -160 dBc
DC Pass		No

#### Mechanical Characteristics

Technology		Quarter Wave
Connection to Network		Connector 7/16 Female/Female
Mounting		Feedthrough
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

621105

