

# Quarter-Wave Coaxial Protectors

## PRC Series



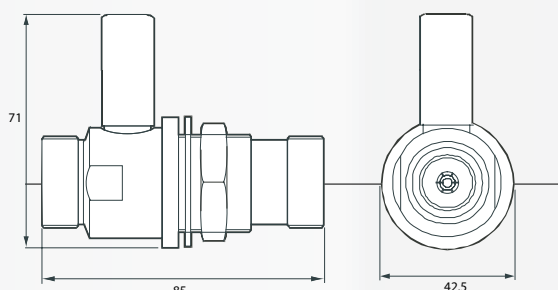
PRC1800-7/16MF



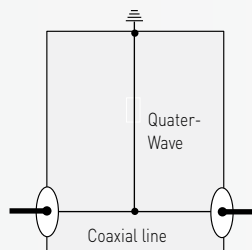
- **Quarter-Wave Surge Protector up to 6GHz**
- **Maintenance Free Design**
- **Low Insertion Loss**
- **Narrow and Wide-Band Application**
- **I<sub>max</sub> > 50kA**
- **IP65 Classification**

## Dimensions and Electrical Diagram

(in mm)



Dimensions vary by connector



## Characteristics

CITEL	PRC822	PRC900	PRC1800	PRC2100	PRC5800
Frequency Range	800-2200MHz	870-960MHz	1700-1950MHz	1800-2400MHz	4500-6000MHz
Technology	1/4 wave	1/4 wave	1/4 wave	1/4 wave	1/4 wave
Insertion Loss	< 0.2 db	< 0.2 db	< 0.2 db	< 0.2 db	< 0.2 db
Return Loss	> 20 db	> 20 db	> 20 db	> 20 db	> 20 db
VSWR	<1.2:1	<1.2:1	<1.2:1	<1.2:1	<1.2:1
Max Discharge current at 8/20µs	100 kA (50 kA = N&TNC)	100kA (50 kA = N&TNC)	100kA (50 kA = N&TNC)	50 kA	50 kA
Maximum Power	2500 W (1500 W = N & TNC)	2500 W (1500 W = N & TNC)	2500 W (1500 W = N & TNC)	1500 W	1500 W
Maximum Current	N/A	N/A	N/A	N/A	N/A
Impedance	50 ohms	50 ohms	50 ohms	50 ohms	50 ohms
<b>Mechanical Characteristics</b>					
Connection Method	Series				
Connectors	7/16, N, TNC	7/16, N, TNC	7/16, N, TNC	N	N
Grounding	M6 Screw, Bulkhead, Bracket				
Environmental Rating	IP65				
Operating Temperature	-40°C to +85°C				
Operating Altitude	4,000 m				
Relative Humidity	up to 5 to 95% non-condensing, up to 100%				

## Material

Component	Body	F/M Contacts	Insulators
Material	Brass	Bronze	PTFE
Surface Plating	Cu Zn Sn	Gold/Silver	-