Quarter-Wave Coaxial Protectors
PRC Series

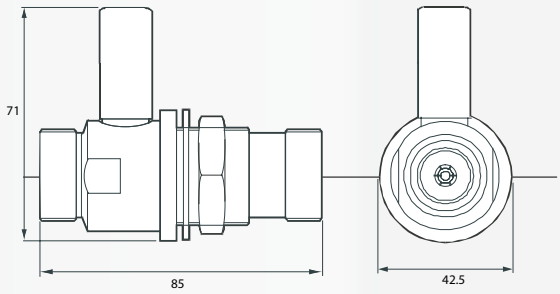
PRC1800-7/16MF

UL LISTED

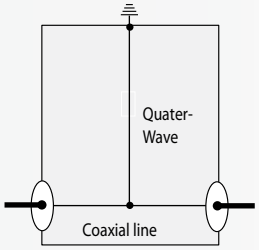
- Quarter-Wave Surge Protector up to 6GHz
- Maintenance Free Design
- Low Insertion Loss
- Narrow and Wide-Band Application
- Imax > 50kA
- IP66 Classification
- DC Block (Short Circuit)

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
Mechanical Characeristics					
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	IP66				
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	-

CITEL