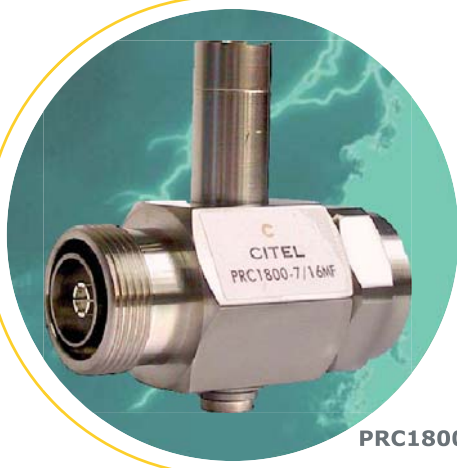




## High Frequency Band Pass Filter Coaxial Surge Protectors

### PRC Series

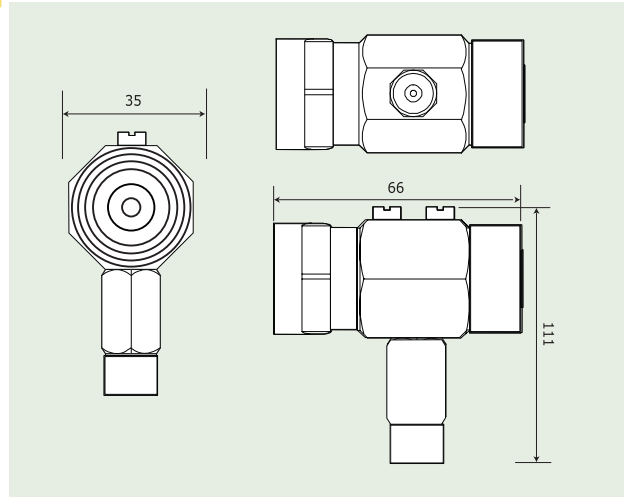


**PRC1800-7/16MF**

The PRC Series coaxial surge protectors have been designed to protect PCS systems, antennas, microwaves, broadband applications, two-way radios, and cellular equipment against lightning surges and electrical transients. In the case of unusual surges, the unit will short circuit leaving your equipment fully protected.

The technology which the PRC series implements is the Quarter Wave Stub. It is designed to pass the desired RF band unattended while shunting the lower and higher frequencies that are associated with electrical surges. The PRC Series is a DC Block circuit.

### Dimensions (in mm, for 7/16 Din)



- Guaranteed lifetime warranty
- No signal loss
- Low leakage current
- Available for wide-band applications

### Characteristics

CITEL Part Number	PRC822	PRC900	PRC1800	PRC2100	PRC5800
Frequency Range	800-2200MHz	870-960MHz	1700-1950MHz	1800-2400MHz	4500-6000MHz
DC Turn-On (Breakdown)	N/A	N/A	N/A	N/A	N/A
Technology	Frequency Filter	Frequency Filter	Frequency Filter	Frequency Filter	Frequency Filter
Insertion Loss	≤0.15db	≤0.15db	≤0.15db	≤0.12db	≤0.20db
Return Loss	≥20db	≥20db	≥20db	≥20db	≥20db
VSWR	< 1.2:1	< 1.2:1	< 1.2:1	< 1.2:1	< 1.2:1
I <sub>peak</sub> (8/20 μs)	100kA	100kA (50kA N&TNC)	100kA (50kA N&TNC)	50kA	50kA
Max Power	2500	2500 (1500 N&TNC)	2500 (1500 N&TNC)	1500	1500
Max current	N/A	N/A	N/A	N/A	N/A
Impedance	50 Ohms	50 Ohms	50 Ohms	50 Ohms	50 Ohms
Connection Method	Series	Series	Series	Series	Series
Connectors	7/16	7/16, N, TNC	7/16, N, TNC	N	N
Grounding	M6 Screw, Bulkhead, Bracket	M6 Screw, Bulkhead, Bracket	M6 Screw, Bulkhead, Bracket	M6 Screw, Bulkhead, Bracket	M6 Screw, Bulkhead, Bracket
Environmental Rating	IP65	IP65	IP65	IP65	IP65
Operating Temp	-50°C to +85°C	-50°C to +85°C	-50°C to +85°C	-50°C to +85°C	-50°C to +85°C
Operating Altitude	13,000 ft (4,000m)	13,000 ft (4,000m)	13,000 ft (4,000m)	13,000 ft (4,000m)	13,000 ft (4,000m)
Relative Humidity	up to 5 to 95% non-condensing, to 100%	up to 5 to 95% non-condensing, to 100%	up to 5 to 95% non-condensing, to 100%	up to 5 to 95% non-condensing, to 100%	up to 5 to 95% non-condensing, to 100%
Weight	8.0 oz	8.0 oz	8.0 oz	8.0 oz	8.0 oz