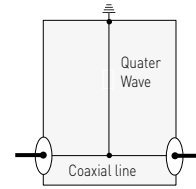
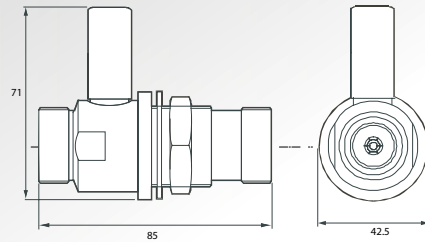


«Quarter-Wave» Coaxial Protectors PRC series

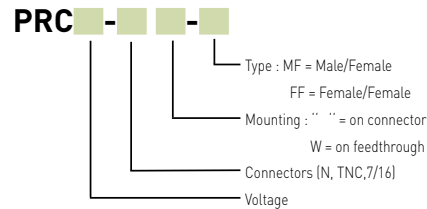


PRC1800-7/16MF

PRC822S-716W/FF



- Low insertion losses
- $I_{max} > 50 \text{ kA}$
- Available for wide-band application
- No maintenance



Characteristics

CITEL Model		PRC822S*	PRC900*	PRC1800*	PRC2100*	PRC5800*
Description		«Quarter wave» coaxial protector Quarter Wave	«Quarter wave» coaxial protector Quarter Wave	«Quarter wave» coaxial protector Quarter Wave	«Quarter wave» coaxial protector Quarter Wave	«Quarter wave» coaxial protector Quarter Wave
Technology						
Max. frequency	f	800-2200MHz	870-960MHz	1700-1950MHz	1800-2400MHz	4500-6000MHz
Max Power	P	1500 W (7/16 = 2500 W)	1500 W (7/16 = 2500 W)	1500 W (7/16 = 2500 W)	1500 W	1500 W
Impedance	Z	50 ohms	50 ohms	50 ohms	50 ohms	50 ohms
Insertion loss		< 0.2dB	< 0.2dB	< 0.2dB	< 0.2dB	< 0.2dB
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. Load current	IL	10A	10A	10A	10A	10A
Nominal discharge current - 8/20µs test x 10 - C2 category	In	25 kA	50 kA	50 kA	25 kA	25 kA
Max. discharge current -max. withstand @ 8/20 µs	I _{max}	50 kA	100 kA	100 kA	50 kA	50 kA
Impulse current - 2 x 10/350µs Test - D1 category	I _{imp}	25 kA	50 kA	50 kA	25 kA	25 kA
Protection level	Up	< 30 V	< 30 V	< 30 V	< 30 V	< 30 V
Failsafe behavior		without	without	without	without	without
Mechanical characteristics						
Dimensions		see diagram				
Connection to Network		N or 7/16 connector	N, TNC or 7/16 connector	N, TNC or 7/16 connector	N connector	N connector
Mounting		on connector or feedthrough (W version)				
Operating temperature		-40/+85°C				
Protection rating		IP65				
Housing material		Brass/Surface plating : Cu Zn Sn				
Contacts		Bronze/Surface Au-Ag				
Insulation material		PTFE				
Standards compliance		IEC 61643-21 / EN 61643-21 / UL497C / UL497E				
Part number						
N connector Female/Female		PRC822S-N/FF 61013	PRC900-N/FF 621124	PRC1800-N/FF 621125	PRC2100-N/FF -	PRC5800-N/FF 621151
N connector Male/Female		PRC822S-N/MF 61003	PRC900-N/MF 621111	PRC1800-N/MF 621112	PRC2100-N/MF 621183	PRC5800-N/MF 621112
N connector Female/Female - Feedthrough mounting		- -	- -	- -	PRC2100-NW/FF 621172	- -
N connector Male/Female - Feed- through mounting		- -	- -	PRC1800-NW/MF 61108	PRC2100-NW/MF -	- -
T connector Female/Female		- -	PRC900-T/FF 621126	PRC1800-T/FF 621127	- -	- -
T connector Male/Female		- -	PRC900-T/MF 621113	PRC1800-T/MF 621115	- -	- -
7/16 connector Female/Female		PRC822S-716/MF 621139	PRC900-716/MF 621110	PRC1800-716/MF 621108	- -	- -
7/16 connector Male/Female		PRC822S-716/FF 67413	PRC900-716/FF 621109	PRC1800-716/FF 621107	- -	- -