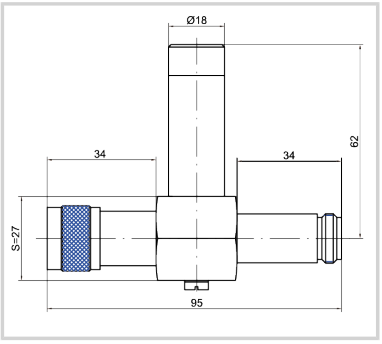
'Quarter wave' coaxial protector

PRC822S-N/MF

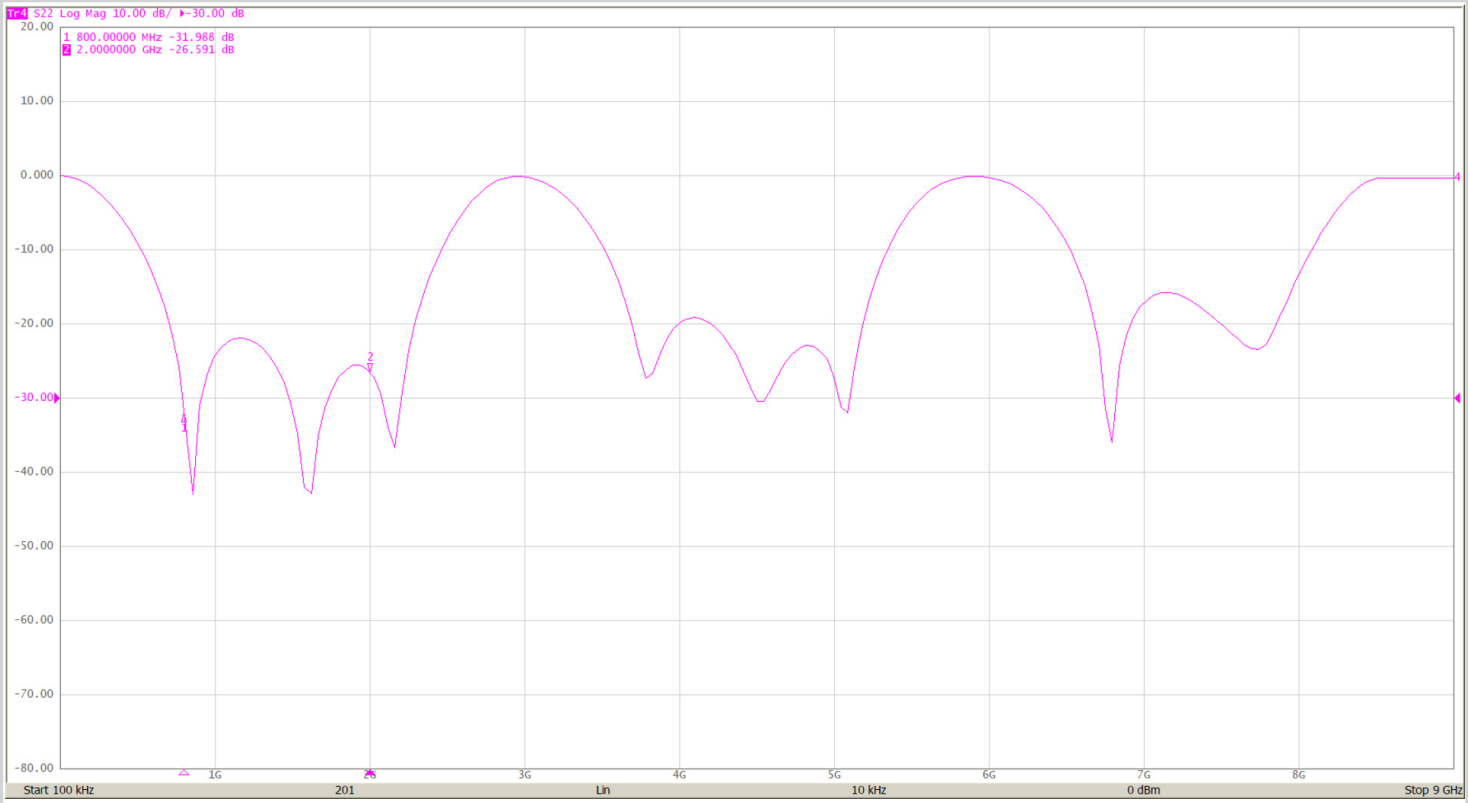


- 'Quarter wave' coaxial protector type N
- Frequency : 800-2200 MHz
- Low insertion loss
- Imax > 50 kA
- Maintenance free
- Bi-directional
- IP65



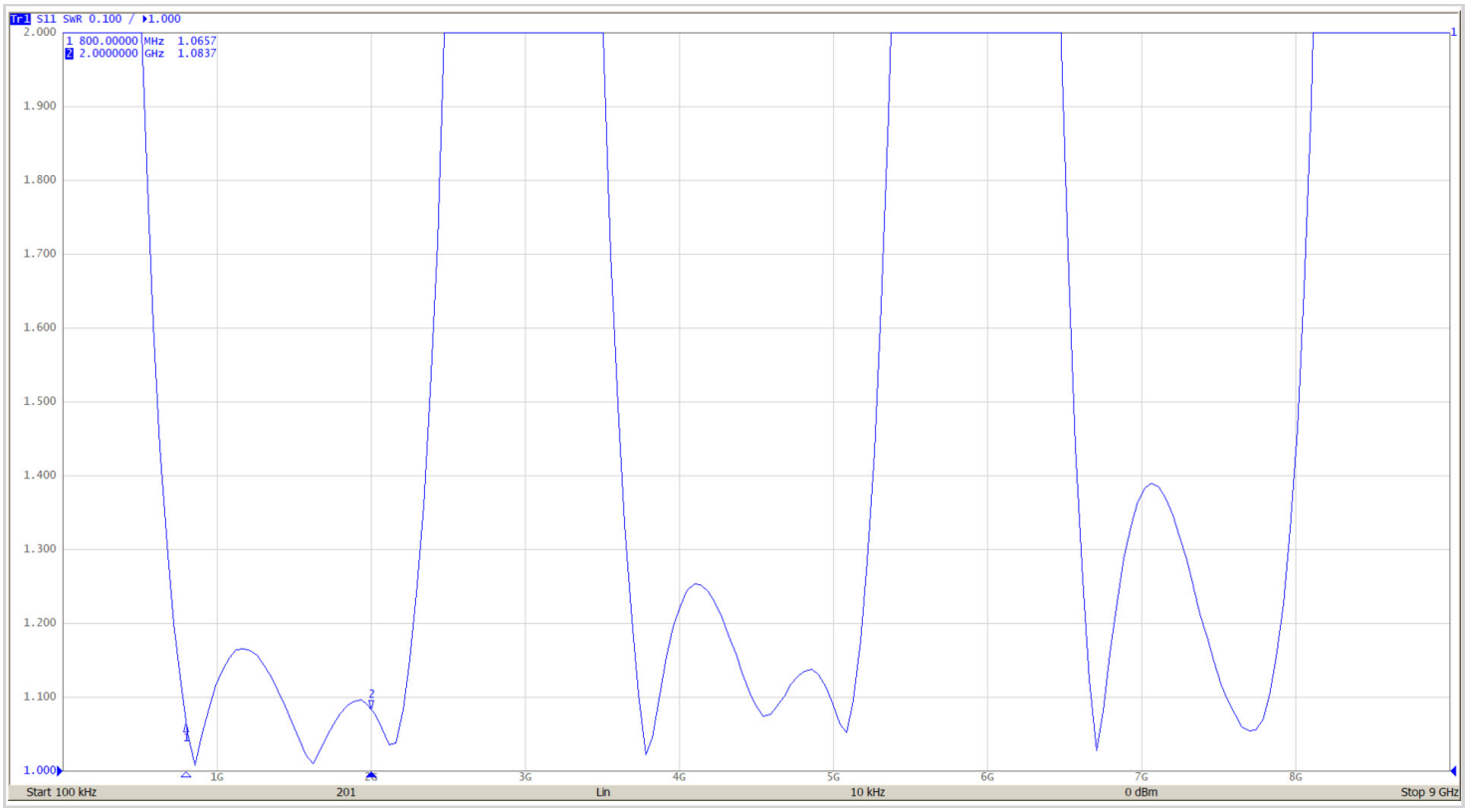
Electrical Characteristics		
Frequency range	f	800-2200 MHz
Insertion loss		< 0.1 dB
Return loss		> 20 dB
Impedance		50 ohms
VSWR		<1.1:1
Max. load current @25°C	IL	10 A
Max. discharge current *max. withstand @ 8/20 µs by pole*	Imax	50 kA
Nominal discharge current *C2 Category*	In	25 kA
Protection mode(s)		Common mode
Protection level *@1kV/µs (C3)*	Up	30 V
Impulse current *2 x 10/350µs Test - D1 Category*	Iimp	25 kA
Max Power @f max.		867 W
Max Power @f mini.		1437 W
PIM 3rd order (2x20W)		< -160 dBc
DC Pass		No
Mechanical Characteristics		
Technology		Quarter Wave
Connection to Network		Connector N Male/Female
Mounting		Connector
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		
61003		

PRC822S-N/MF


Tr4 S22 Log Mag 10.00 dB/ ▸-30.00 dB
1 800.00000 MHz -31.988 dB
2 2.0000000 GHz -26.591 dB
20.00
10.00
0.000
-10.00
-20.00
-30.00
-40.00
-50.00
-60.00
-70.00
-80.00
1G
3G
4G
5G
6G
7G
8G
Start 100 kHz
201
Lin
10 kHz
0 dBm
Stop 9 GHz


Tr2 S21 Log Mag 0.100 dB/ ▸0.000 dB
1 800.00000 MHz -0.0256 dB
2 2.0000000 GHz -0.0607 dB
0.500
0.400
0.300
0.200
0.100
0.000
-0.100
-0.200
-0.300
-0.400
-0.500
1G
3G
4G
5G
6G
7G
8G
Start 100 kHz
201
Lin
10 kHz
0 dBm
Stop 9 GHz

PRC822S-N/MF


Tr1 S11 SWR 0.100 / 1.000
1 800.00000 MHz 1.0657
2 2.0000000 GHz 1.0837
2.000
1.900
1.800
1.700
1.600
1.500
1.400
1.300
1.200
1.100
1.000
1G
3G
4G
5G
6G
7G
8G
Start 100 kHz
201
Lin
10 kHz
0 dBm
Stop 9 GHz