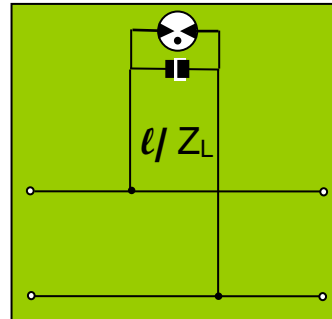


Surge Protector 7-16 socket-socket
with Quarter Wavelength Line and Gas Discharge Arrestor



not binding

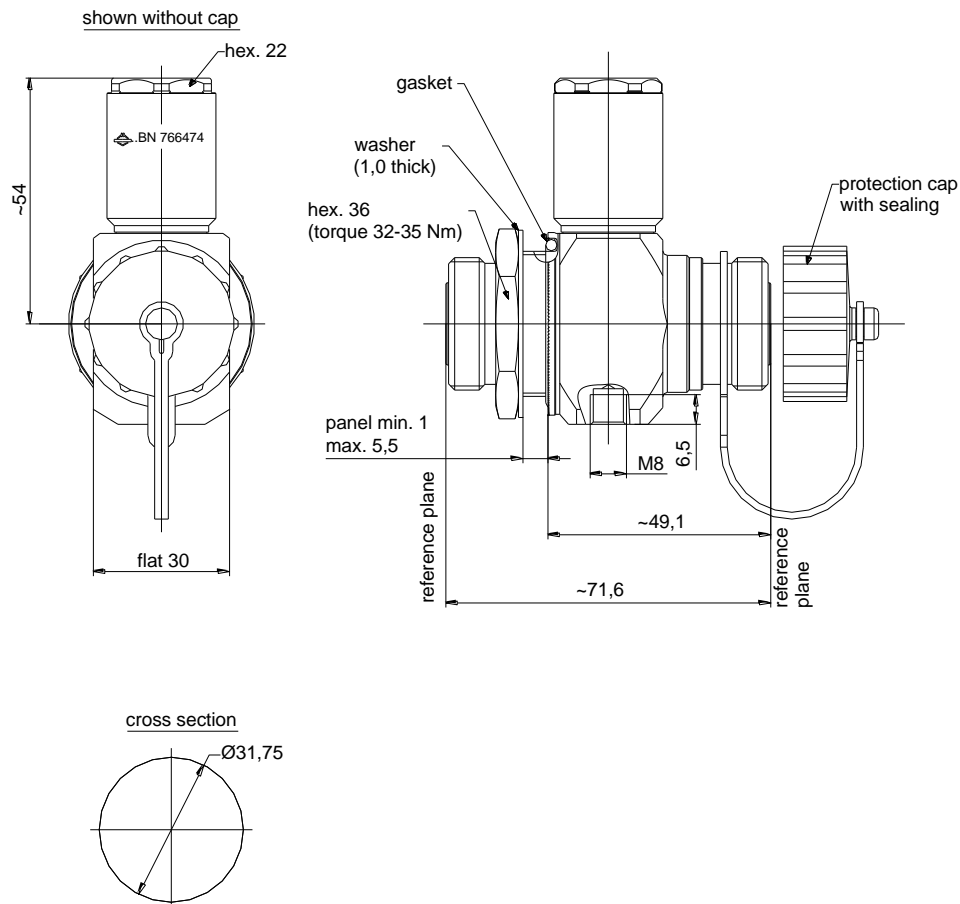


Block diagram

Part number		BN 766474
Connectors	Port 1	7-16 socket (50 Ohms)
	Port 2	7-16 socket (50 Ohms)
Frequency range	Range 1	698 to 725 MHz
	Range 2	725 to 2675 MHz
	Range 3	2675 to 2700 MHz
	Comments:	Compliant for GPS 1575 +/- 10 MHz
VSWR	Range 1	≤ 1.2
	Range 2	≤ 1.15
	Range 3	≤ 1.2
IM3 (2 x 20 W; 936 MHz; 698 MHz) (2 x 20 W; 1770 MHz; 1810 MHz)		≤ -160 dBc
Insertion loss		≤ 0.1 dB
Power rating (for VSWR = 1; sea level and 40°C)		2.7 kW CW at 698 MHz 1.3 kW CW at 2700 MHz
Static sparkover voltage of the discharge arrestor		90 V ± 20 V
Impulse discharge current		30 kA single / 20 kA multiple (test pulse 8/20 μs)
Residual pulse energy		< 350 μJ (test pulse 4 kV 1.2/50 μs and 2 kA 8/20 μs)
DC pass voltage		60 V max.
DC pass current		10 A max.
AISG:		
Frequency range		0 to 10 MHz
VSWR		≤ 1.11
Insertion loss compliant for 2.176 MHz carrier		≤ 0.15 dB

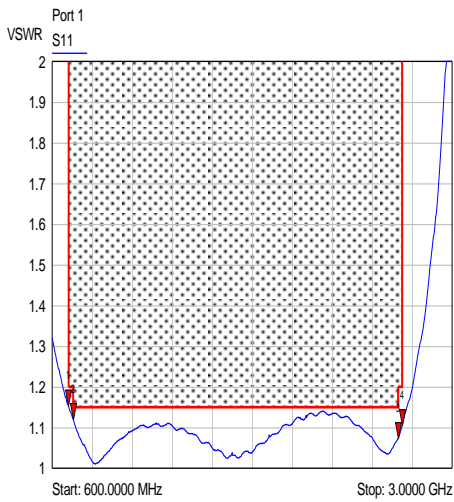
Material and surfaces:	
Inner conductor	Copper alloy / silver-plated
Outer conductor	Al alloy, copper alloy / CuSnZn-plated
Other metal parts	Copper alloy / Chrome-plated
Insulation	PTFE
Sealing	EPDM, silicone rubber
Protection cap	PC with glass fiber
Temperature range	-40 °C – +85 °C
Degree of protection	IP 67 (in mated condition)
Standards	EN 122190; IEC 61169-4
Weight	approx. 500 g
Version	with quarter wavelength line and gas discharge arrestor (Hybrid) panel sealed RoHS-compliant (2002/95/EC)
Recommendation	To improve the long-term durability the connector area should be taped if the protector is mated with connectors made of copper-alloy with trimetal or nickel plating

Dimensions:



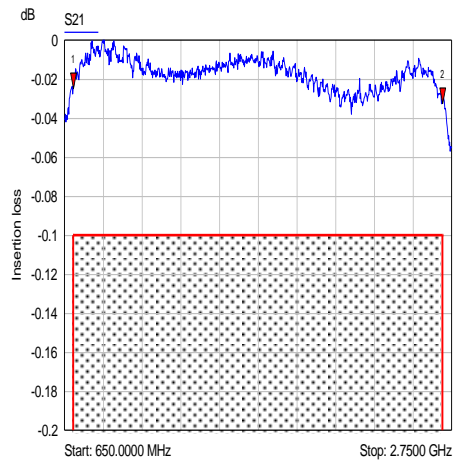
Measurements:

VSWR:



- 1 S11
▼ 698.0000 MHz
1.15 VSWR
- 2 S11
▼ 725.0000 MHz
1.12 VSWR
- 3 S11
▼ 2.6750 GHz
1.07 VSWR
- 4 S11
▼ 2.7000 GHz
1.10 VSWR

Insertion Loss:



- 1 S21
▼ 698.0000 MHz
-0.02 dB
- 2 S21
▼ 2.7000 GHz
-0.03 dB