

**Multiband Diplexer**

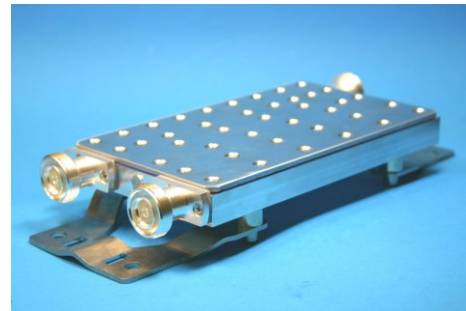
DVB-H Diplexer for Channel 21 ... 38

**Connectors**

7-16 female (50 Ohms)

**Frequency range**

Port 1	<b>860 – 2700 MHz</b>	
	Range 1	860 – 960 MHz
	Range 2	1710 – 2500 MHz
	Range 3	2500 – 2700 MHz
Port 2	<b>68 – 614 MHz</b>	
	Range 4	68 – 420 MHz
	Range 5	420 – 614 MHz



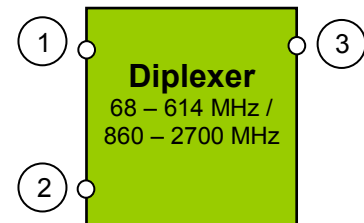
not binding

**Insertion loss**

Port 1 → Port 3	Range 1, 2 and 3	≤ 0.2 dB
Port 2 → Port 3	Range 4	≤ 0.2 dB
	Range 5	≤ 0.6 dB

**Isolation**

Port 1 → Port 2	Range 1, 2 and 3	≥ 50 dB
Port 2 → Port 1	Range 4	≥ 50 dB
Port 2 → Port 1	Range 5	≥ 30 dB



Block Diagram

**VSWR**

Port 1	Range 1 and 2	≤ 1.2   typical: ≤ 1.15
Port 1	Range 3	≤ 1.3
Port 2	Range 4 and 5	≤ 1.3

**Power rating**

Port 1	500 W
Port 2	50 W

**Intermodulation products**

3rd order @ 2 x 20 W ≤ -155 dBc | typical: ≤ -160 dBc

**Degree of protection:**

IP 68  
mated / 1bar, 1h, ≤18°C

**Environmental conditions:**

ETSI EN 300019-1-1 Class 1.2  
ETSI EN 300019-1-2 Class 2.3  
ETSI EN 300019-1-4 Class 4.1E

**Temperature range**

-25 °C to +65 °C

**Weight**

1.5 kg

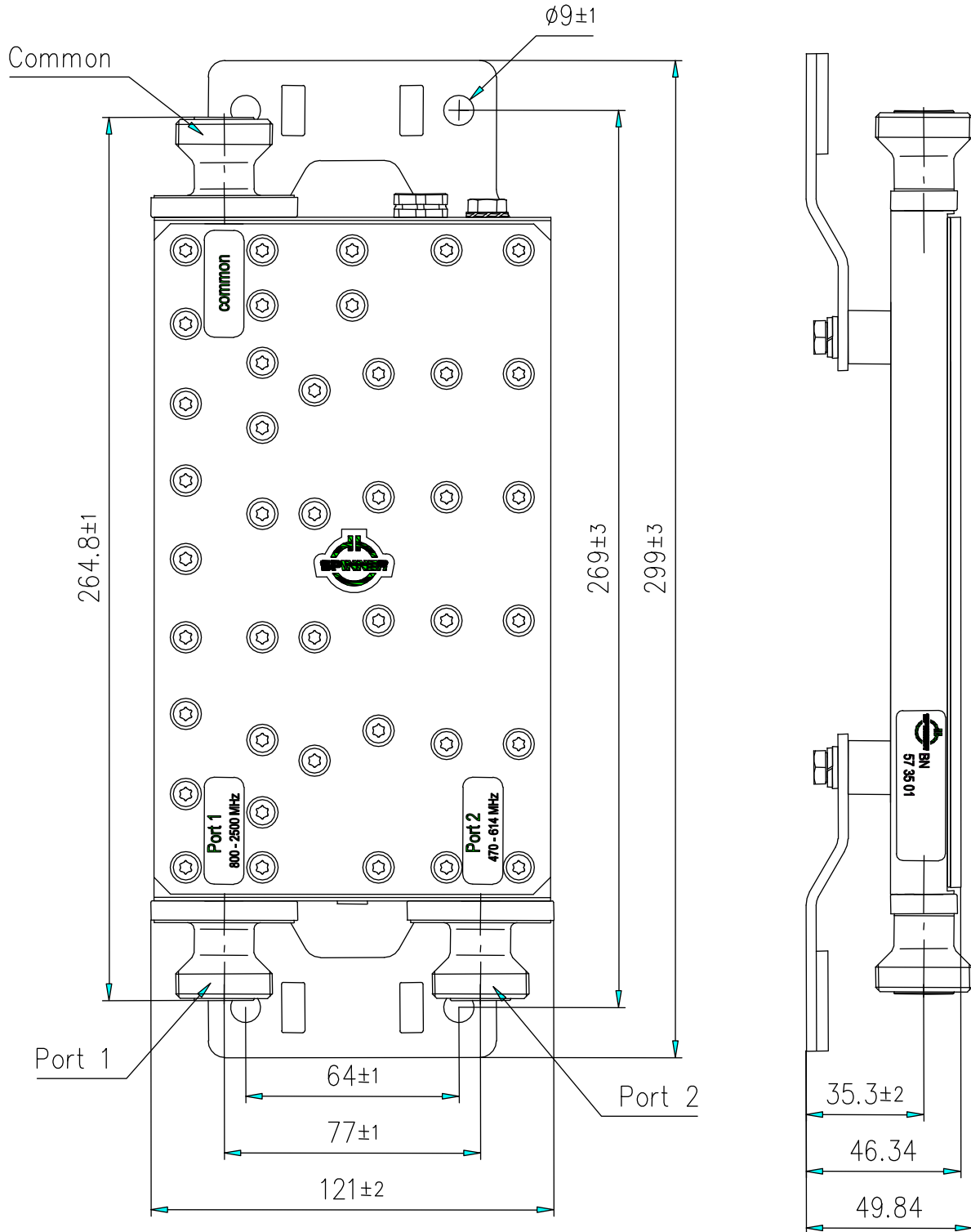
**Wall / Mast mounting**

part of delivery

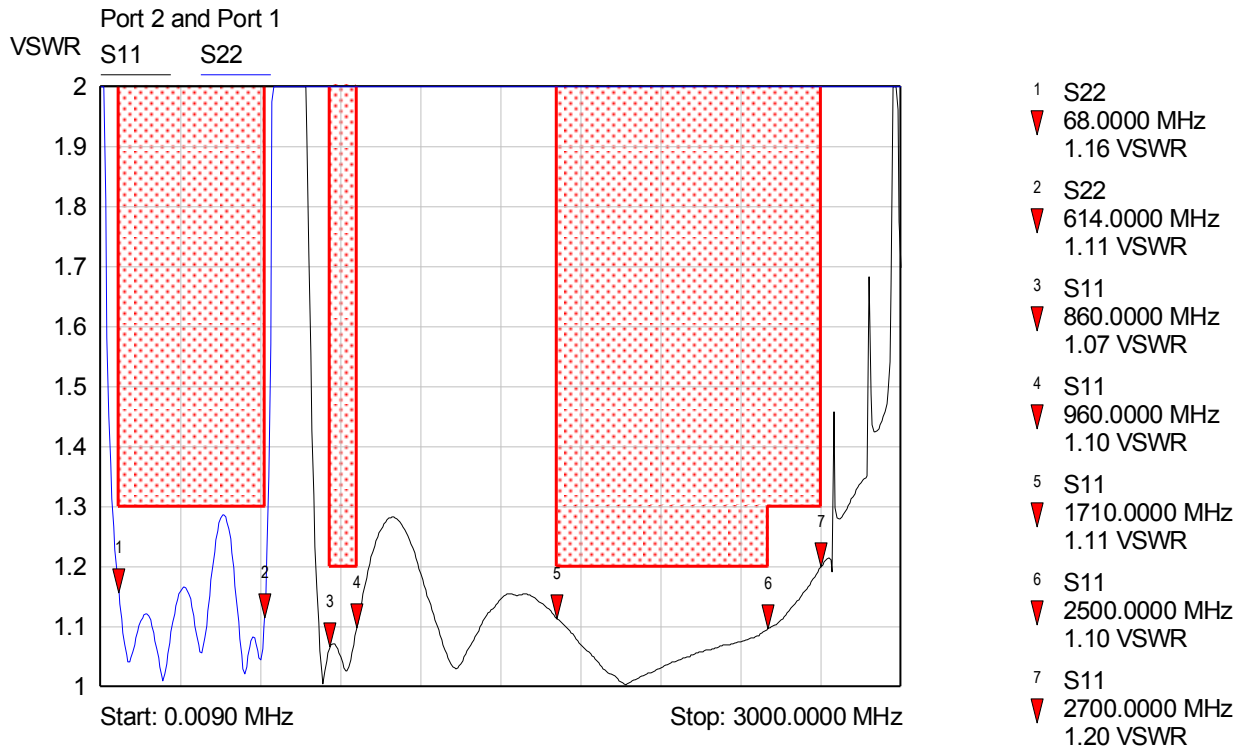
**Appendix**

Dimensions:	
Measurements for	VSWR Insertion loss Isolation

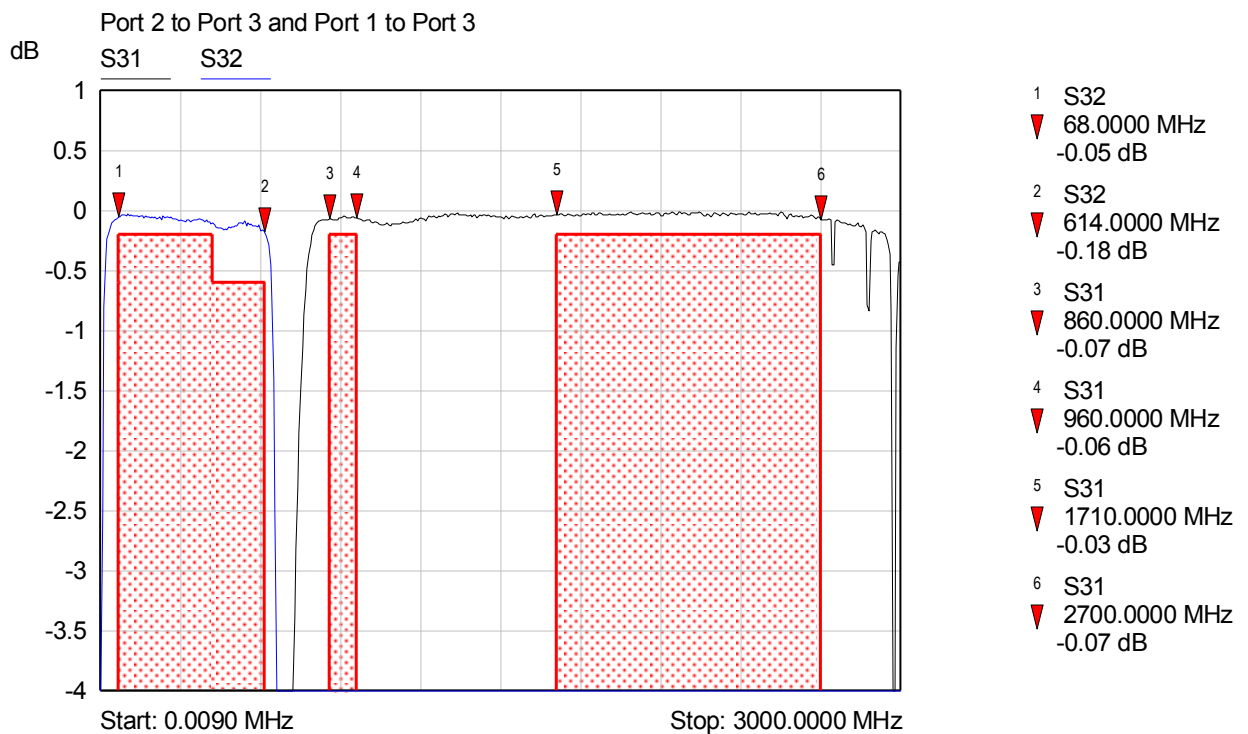
Dimensions:



**VSWR:**

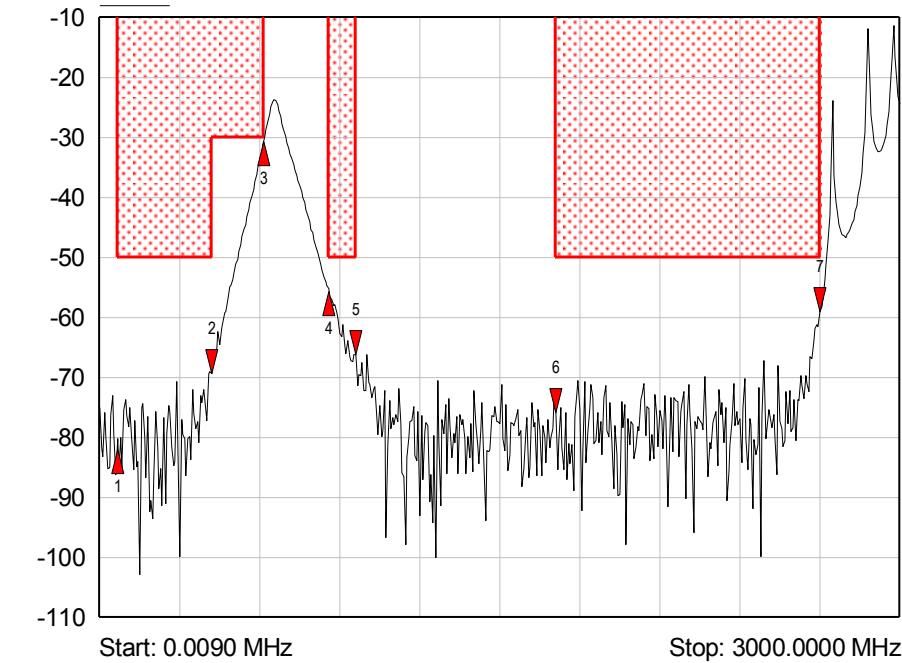


**Insertion loss:**



Isolation:

Port 1 <--> Port 2  
S21



- 1 S21  
▼ 68.0000 MHz  
-82.05 dB
- 2 S21  
▼ 420.0000 MHz  
-69.28 dB
- 3 S21  
▼ 614.0000 MHz  
-30.74 dB
- 4 S21  
▼ 860.0000 MHz  
-55.59 dB
- 5 S21  
▼ 960.0000 MHz  
-66.10 dB
- 6 S21  
▼ 1710.0000 MHz  
-75.76 dB
- 7 S21  
▼ 2700.0000 MHz  
-59.02 dB