

UMTS – MULTIPLEXER UNIT

Basis modul:

BN 5733EU-5

Consisting of:

1 pcs. Multiplexer (BN B08566)

Connectors:

7-16 female (50 Ohms)

Frequency range:

Port 4 1920.3 - 1930.2 / 2110.3 - 2120.2 MHz (Vodafone)

Port 5 1940.1 - 1950.0 / 2130.1 - 2140.0 MHz (E-Plus)

Port 6 1959.9 - 1969.8 / 2149.9 - 2159.8 MHz (O₂)

Port identification according to front-panel inscription.

Insertion loss:

Port 4 → Port 10 ≤ 2.0 dB

Port 5 → Port 10 ≤ 2.0 dB

Port 6 → Port 10 ≤ 2.0 dB

Isolation:

Port 4 → Port 5 ≥ 30 dB

Port 4 → Port 6 ≥ 50 dB

Port 5 → Port 4 ≥ 30 dB

Port 5 → Port 6 ≥ 30 dB

Port 6 → Port 4 ≥ 50 dB

Port 6 → Port 5 ≥ 30 dB

VSWR:

≤ 1.2

Test voltage:

2.2 kV

Power rating:

50 W CW max per input

IM – value:

3rd order @ 2 x 20 W ≥ 160 dBc

Degree of protection:

IP 20

Temperature range:

-5°C - +55°C

Appendix:

Dimensions

Measurements for

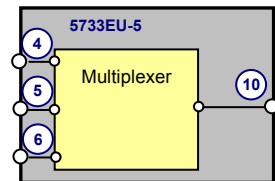
VSWR

Insertion loss

Isolation

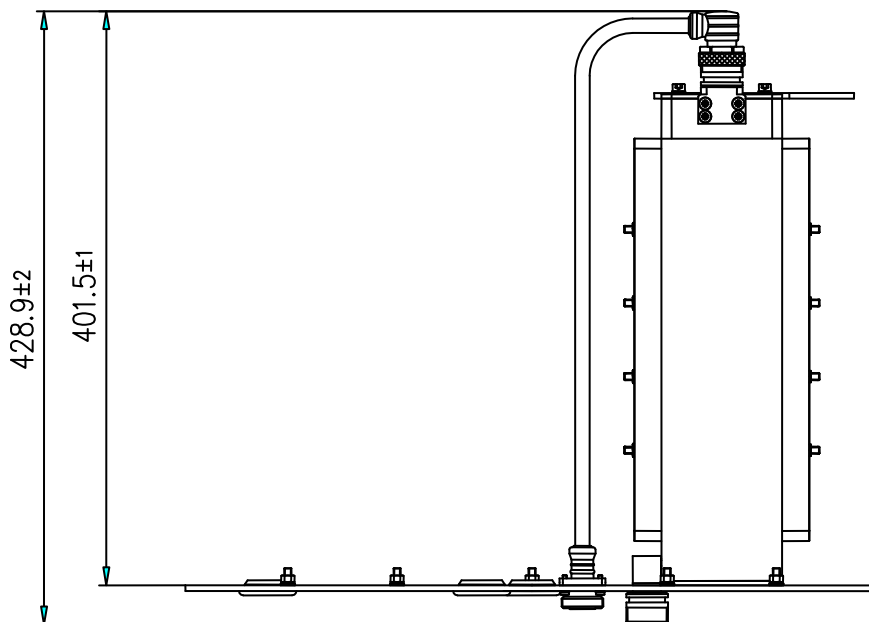
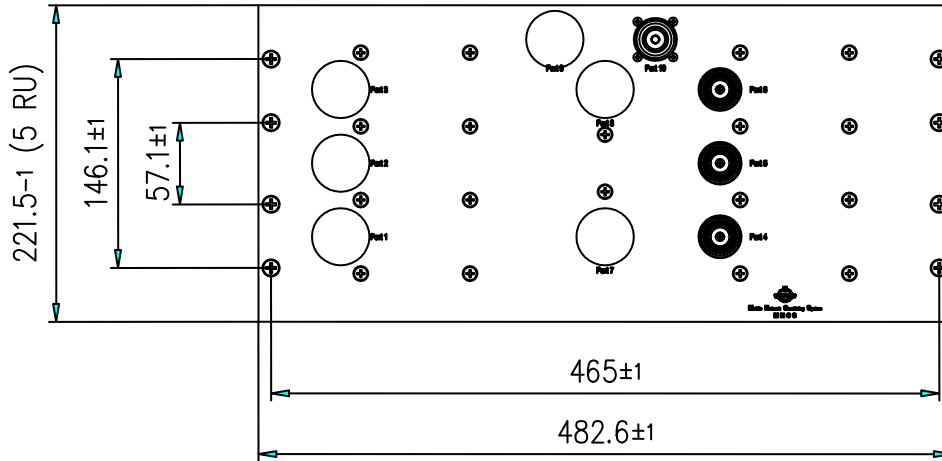


not binding

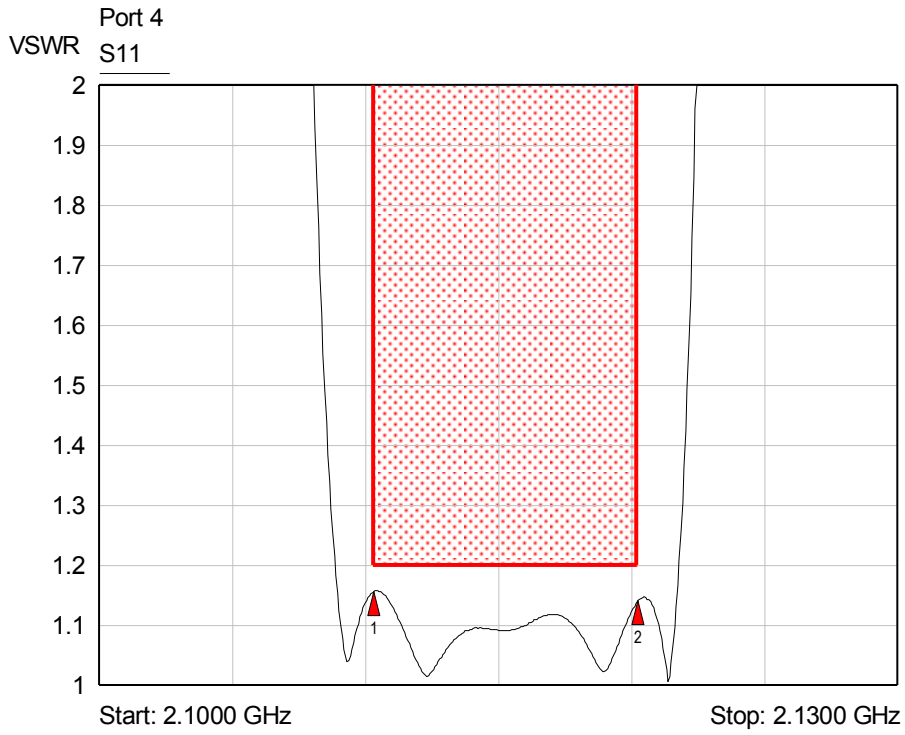


Block Diagram

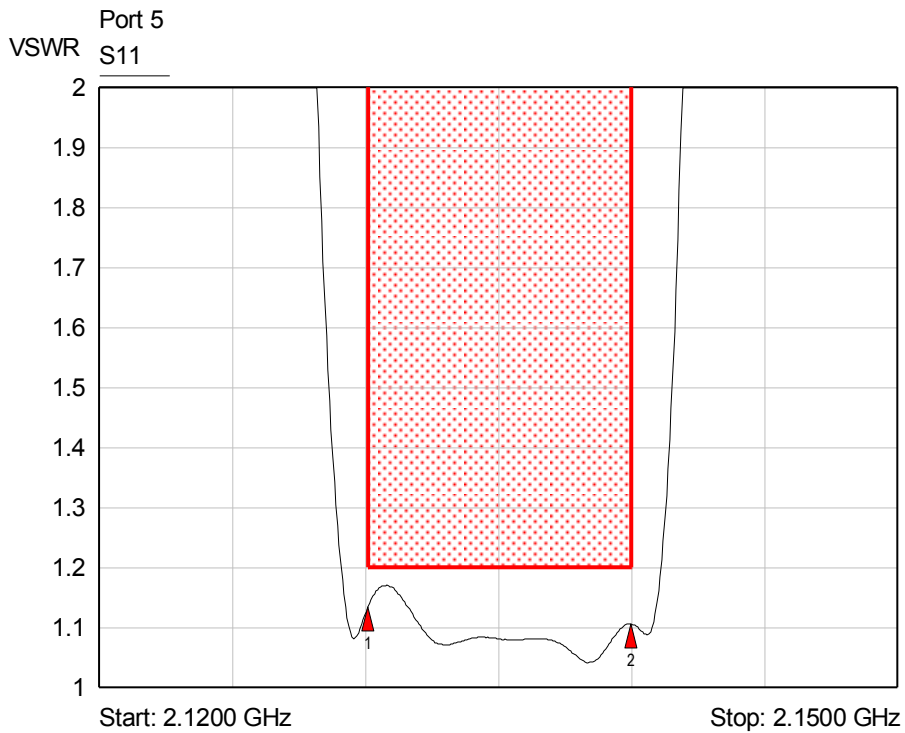
Dimensions:



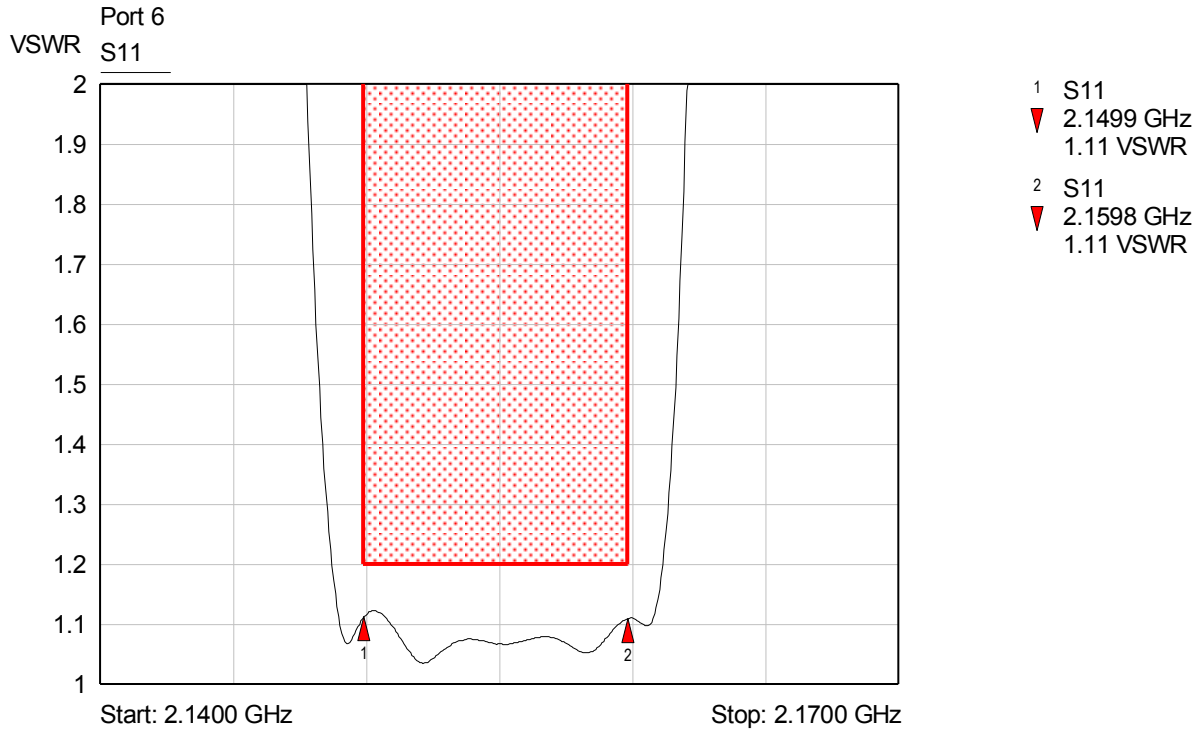
VSWR:



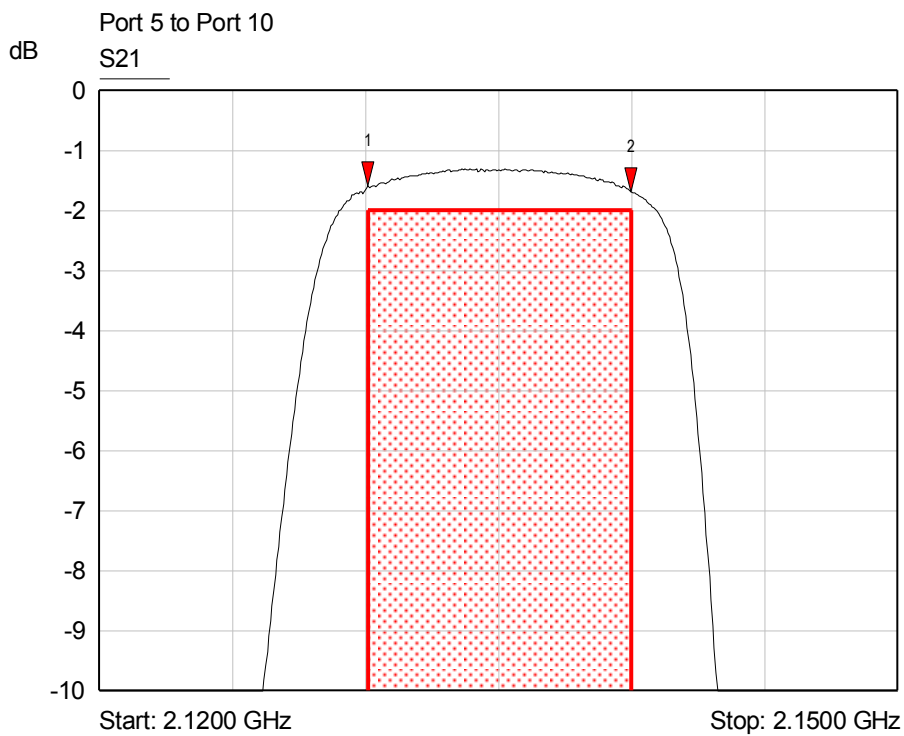
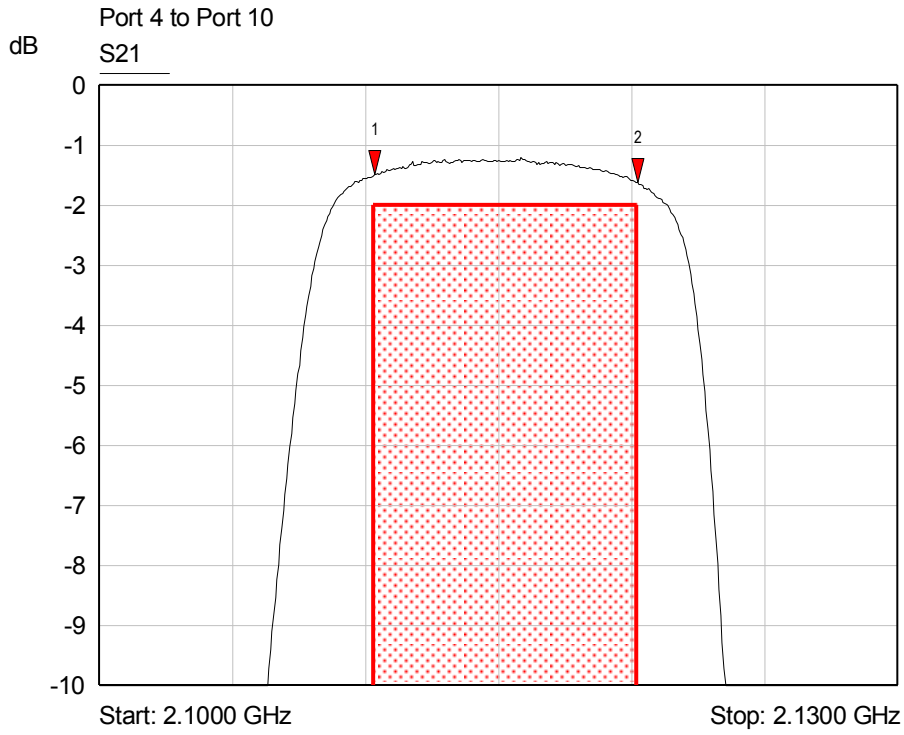
- 1 S11
▼ 2.1103 GHz
1.16 VSWR
- 2 S11
▼ 2.1202 GHz
1.14 VSWR



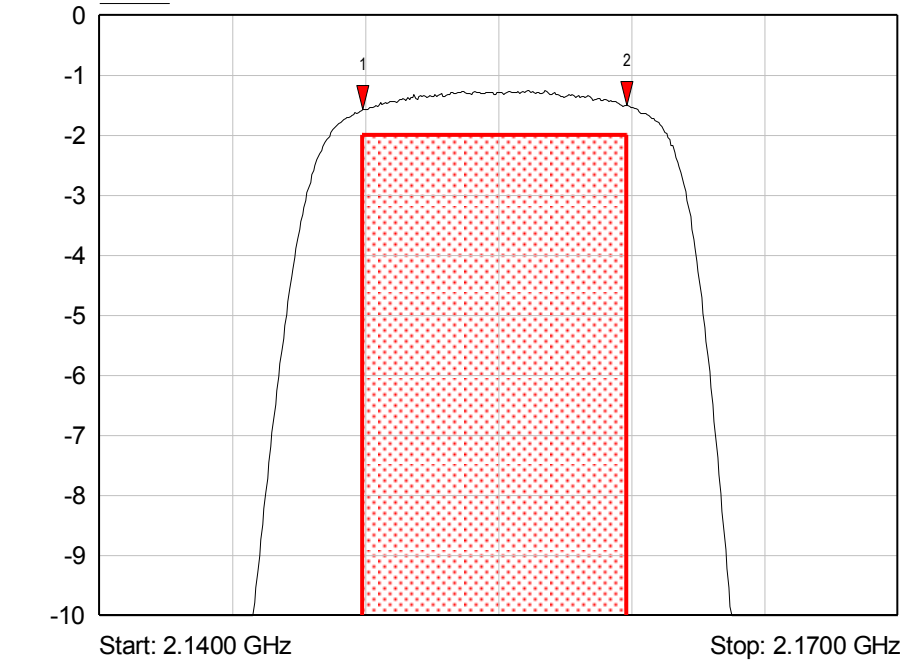
- 1 S11
▼ 2.1301 GHz
1.13 VSWR
- 2 S11
▼ 2.1400 GHz
1.11 VSWR



Insertion loss:

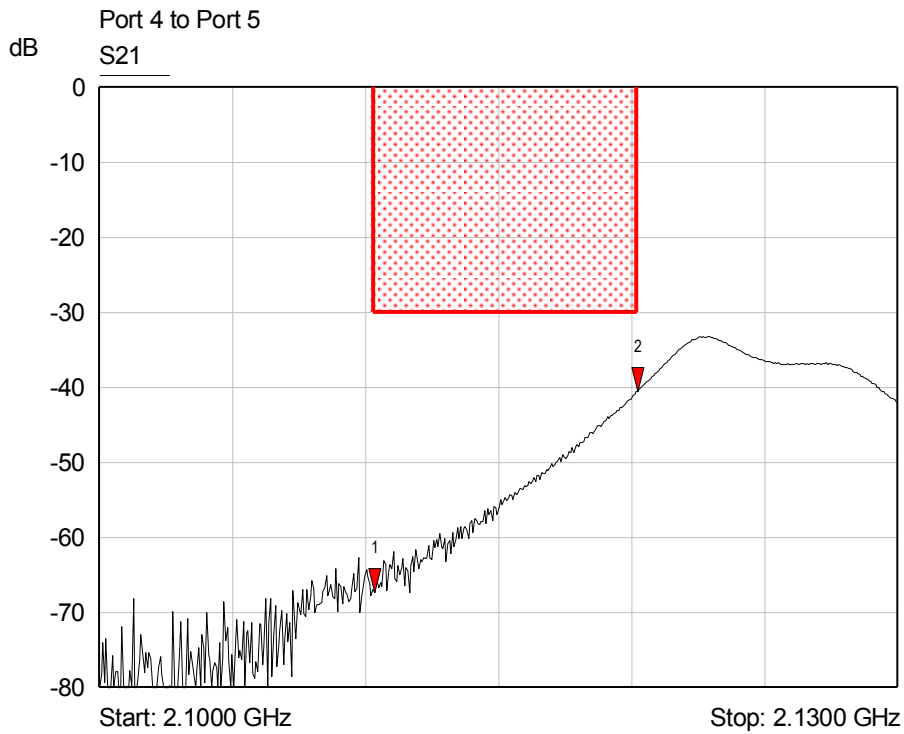


Port 6 to Port 10
S21

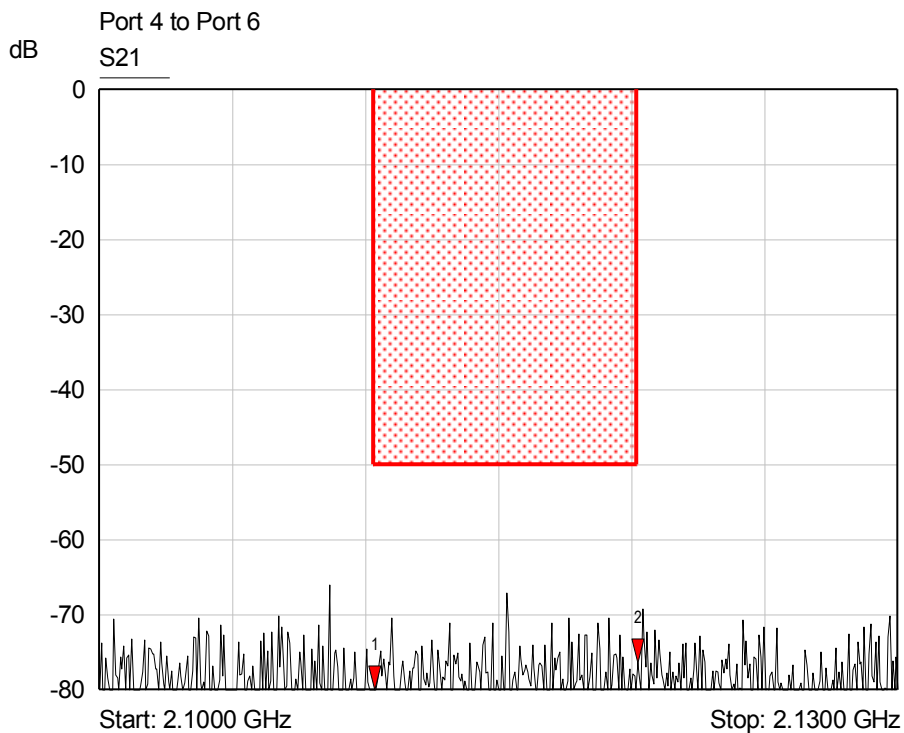


- 1 S21
▼ 2.1499 GHz
-1.57 dB
- 2 S21
▼ 2.1598 GHz
-1.49 dB

Isolation:



- 1 S21
▼ 2.1103 GHz
-67.37 dB
- 2 S21
▼ 2.1202 GHz
-40.51 dB



- 1 S21
▼ 2.1103 GHz
-82.78 dB
- 2 S21
▼ 2.1202 GHz
-76.45 dB

