

UMTS – MULTIPLEXER UNIT

Basis modul:

BN5733EL-5

Consisting of:

- 1 pcs. Multiplexer (BN B09692)
- 1 pcs. Multiplexer (BN B09693)

Connectors:

7-16 female (50 Ohms)

Frequency range:

- Port 1 1969.8 - 1979.7 / 2159.8 - 2169.7 MHz (T-Mobile)
 - Port 2 1920.3 - 1930.2 / 2110.3 - 2120.2 MHz (Vodafone)
 - Port 3 1959.9 - 1969.8 / 2149.9 - 2159.8 MHz (O₂)
 - Port 4 1940.1 - 1950.0 / 2130.1 - 2140.0 MHz (E-Plus)
- Port identification according to front-panel inscription.

Insertion loss:

- Port 1 or 2 → Port 5 ≤ 1.4 dB
- Port 3 or 4 → Port 6 ≤ 1.4 dB

Isolation:

- Port 1 ↔ 2 ≥ 50 dB
- Port 3 ↔ 4 ≥ 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:

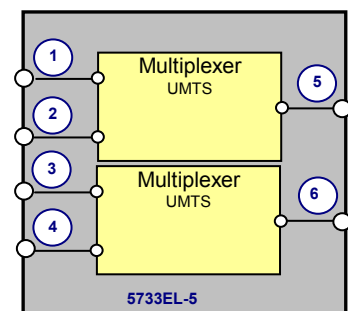
-5°C - +55°C

Appendix:

- Dimensions
- Measurements for VSWR
- Insertion loss
- Isolation

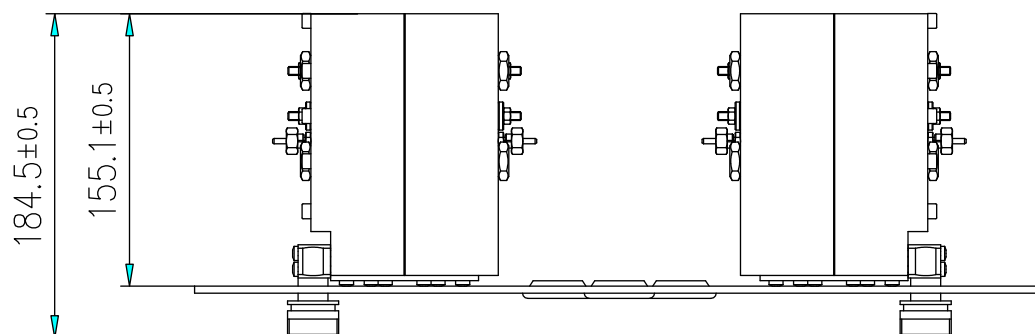
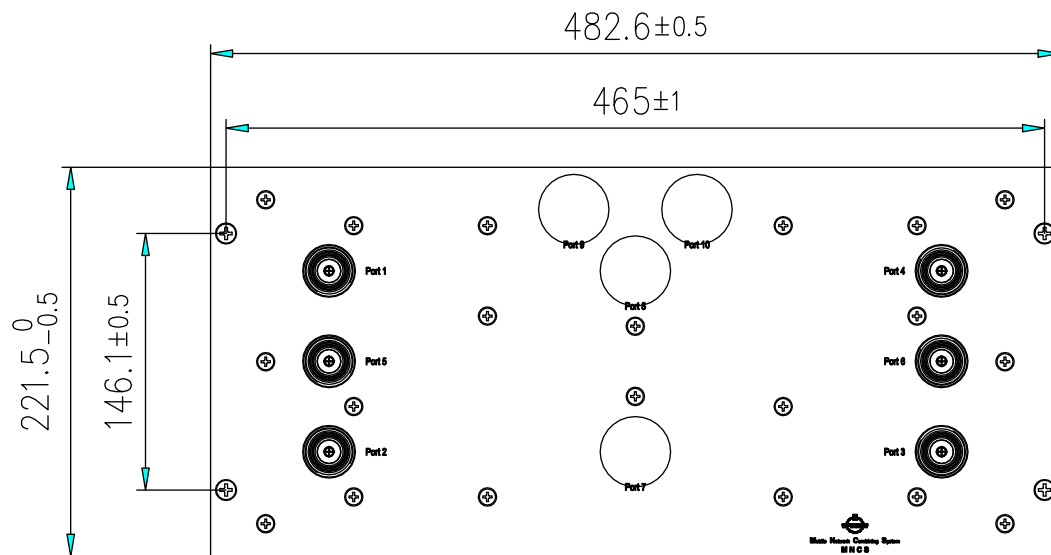


not binding

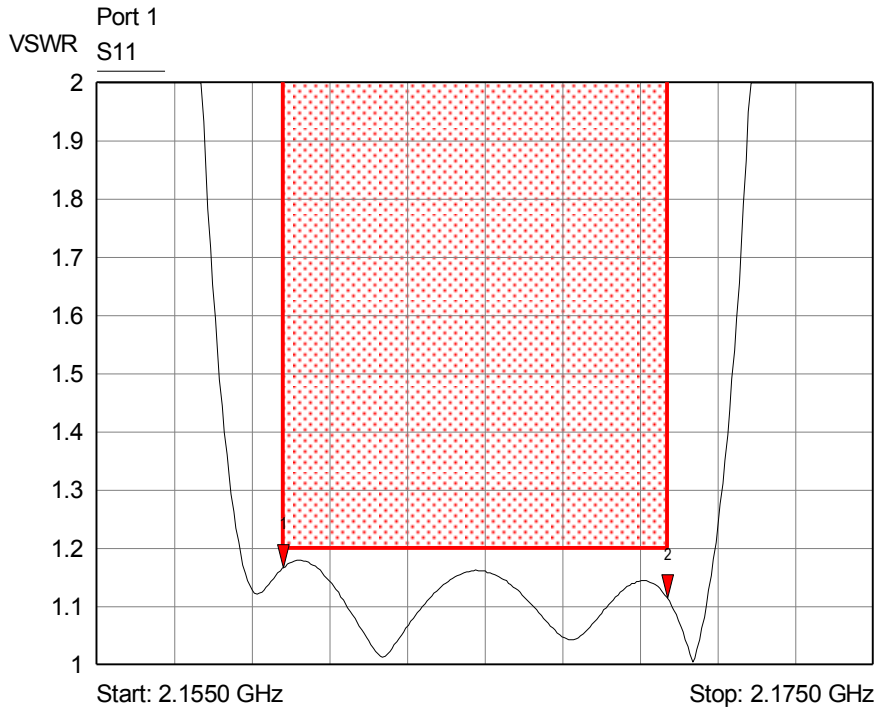


Block Diagram

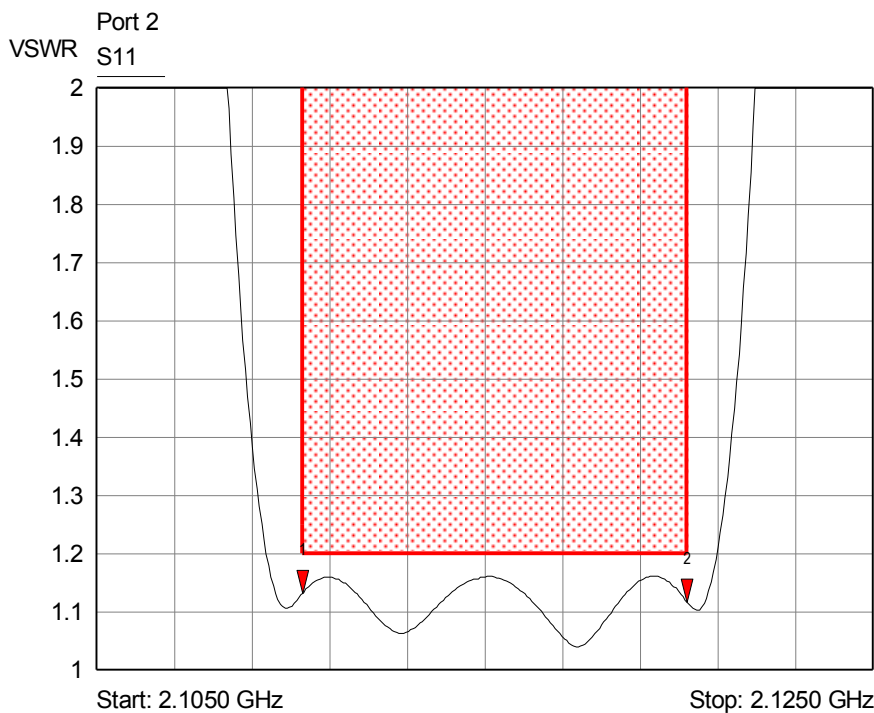
Dimensions:



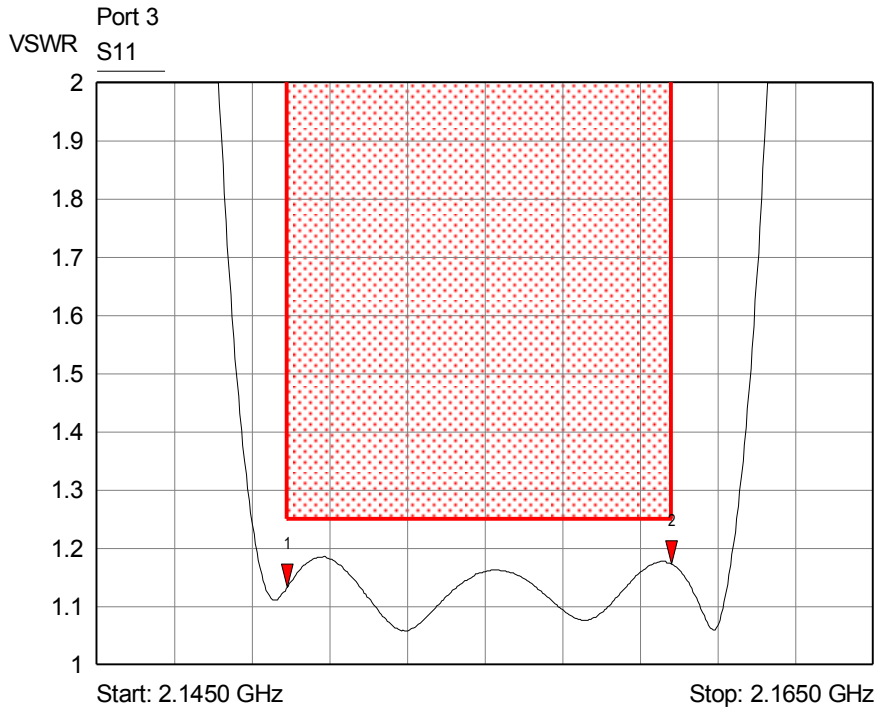
VSWR:



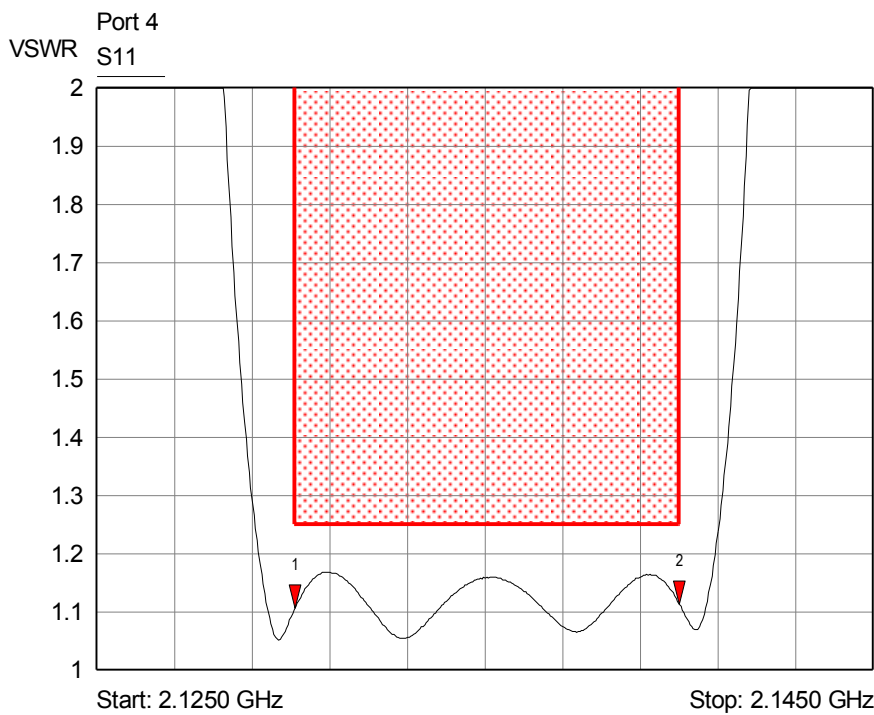
- 1 S11
▼ 2.1598 GHz
1.1670 VSWR
- 2 S11
▼ 2.1697 GHz
1.1143 VSWR



- 1 S11
▼ 2.1103 GHz
1.1325 VSWR
- 2 S11
▼ 2.1202 GHz
1.1167 VSWR

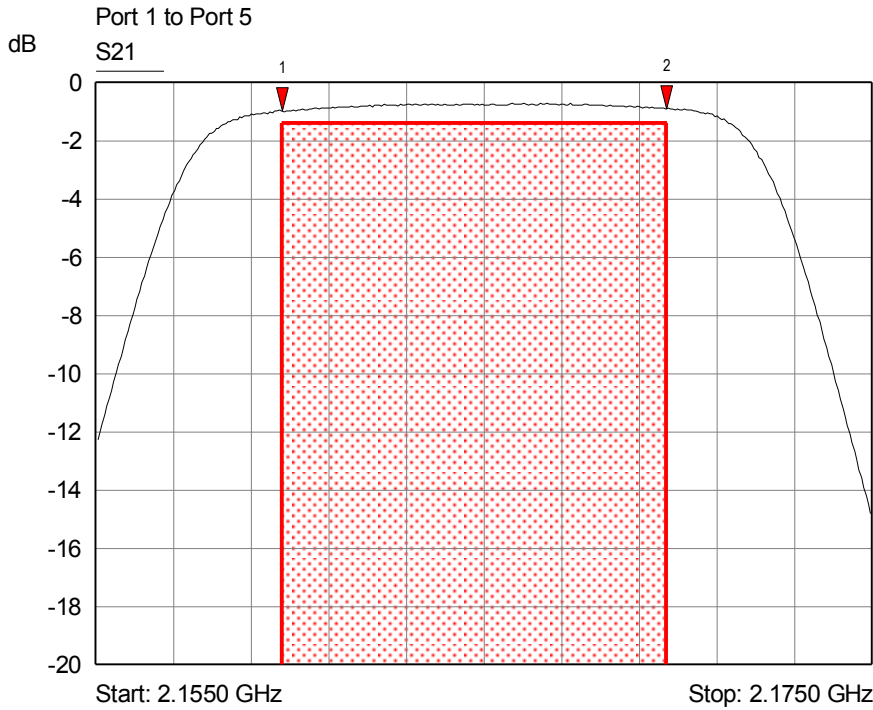


- 1 S11
▼ 2.1499 GHz
1.1333 VSWR
- 2 S11
▼ 2.1598 GHz
1.1734 VSWR

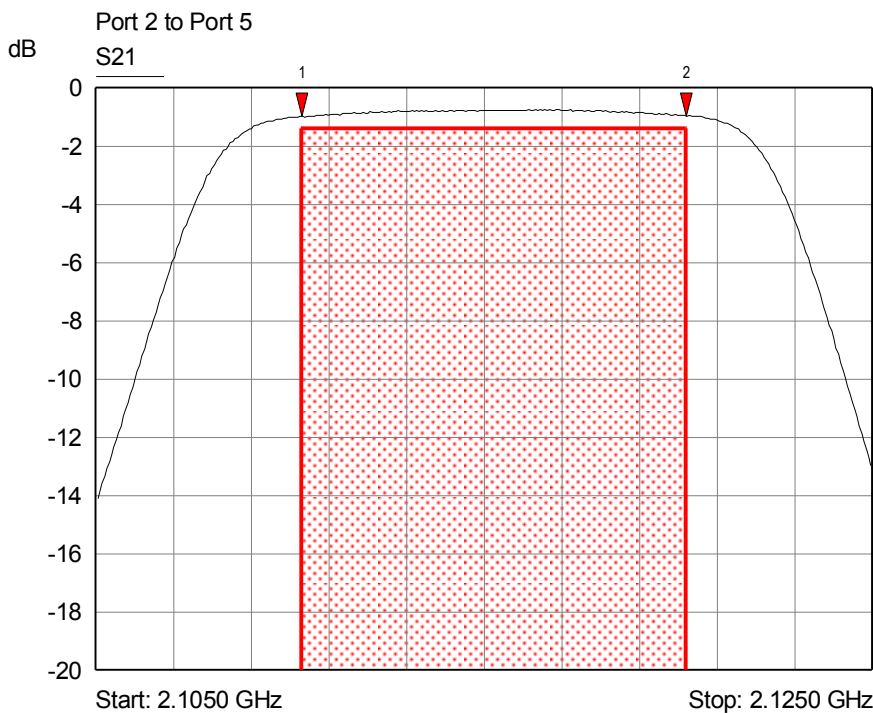


- 1 S11
▼ 2.1301 GHz
1.1069 VSWR
- 2 S11
▼ 2.1400 GHz
1.1139 VSWR

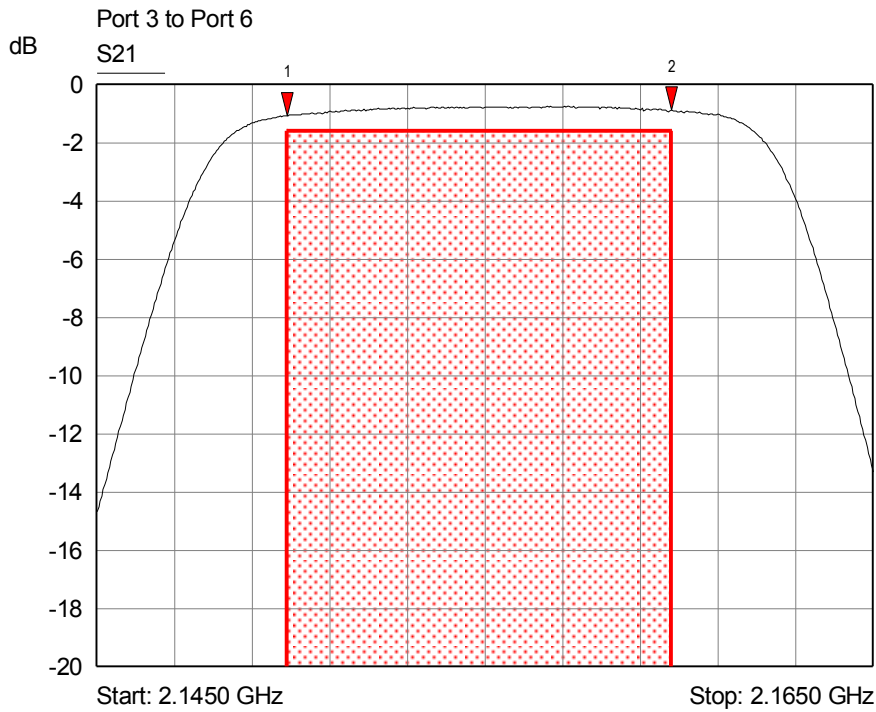
Insertion loss:



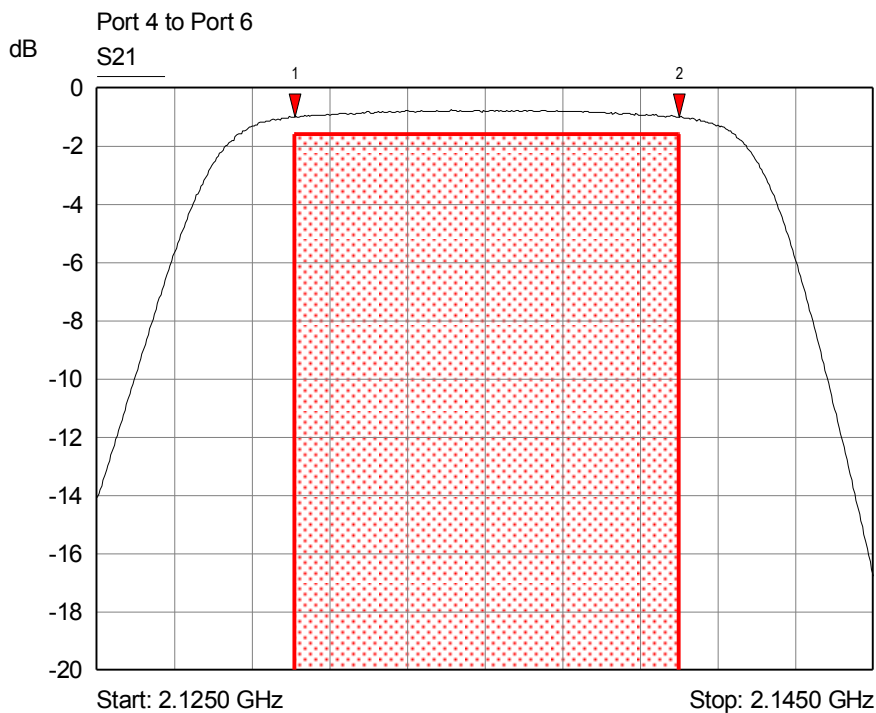
- 1 S21
▼ 2.1598 GHz
-0.9705 dB
- 2 S21
▼ 2.1697 GHz
-0.8911 dB



- 1 S21
▼ 2.1103 GHz
-0.9661 dB
- 2 S21
▼ 2.1202 GHz
-0.9609 dB

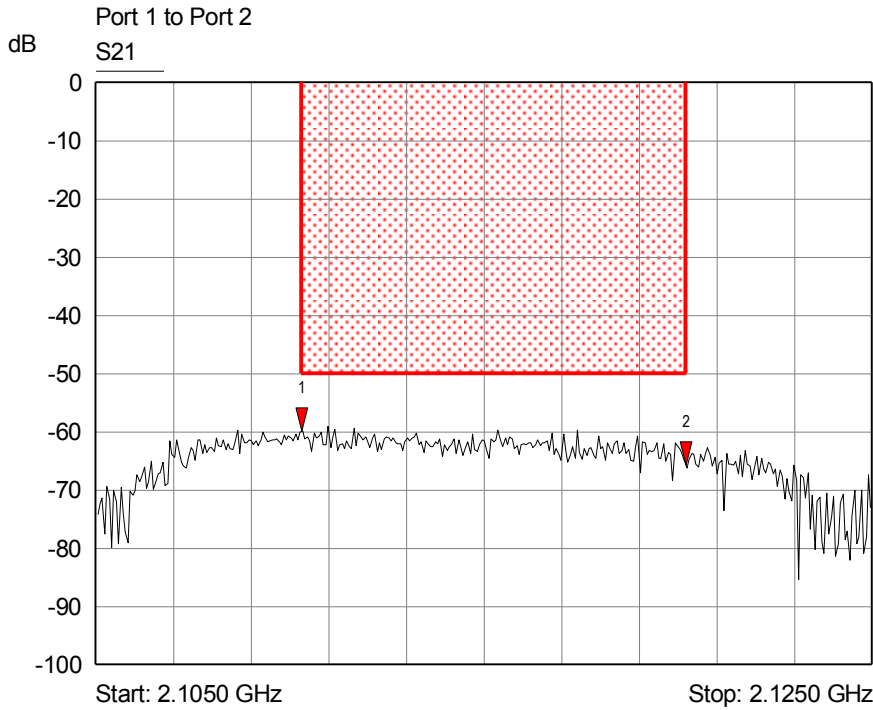


- 1 S21
▼ 2.1499 GHz
-1.0711 dB
- 2 S21
▼ 2.1598 GHz
-0.8810 dB

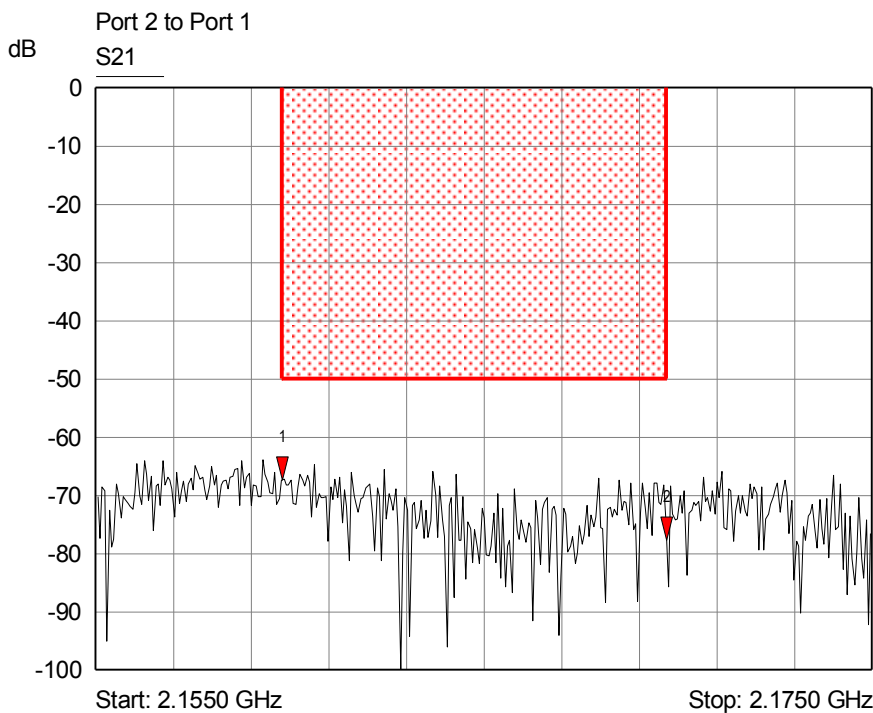


- 1 S21
▼ 2.1301 GHz
-0.9904 dB
- 2 S21
▼ 2.1400 GHz
-1.0072 dB

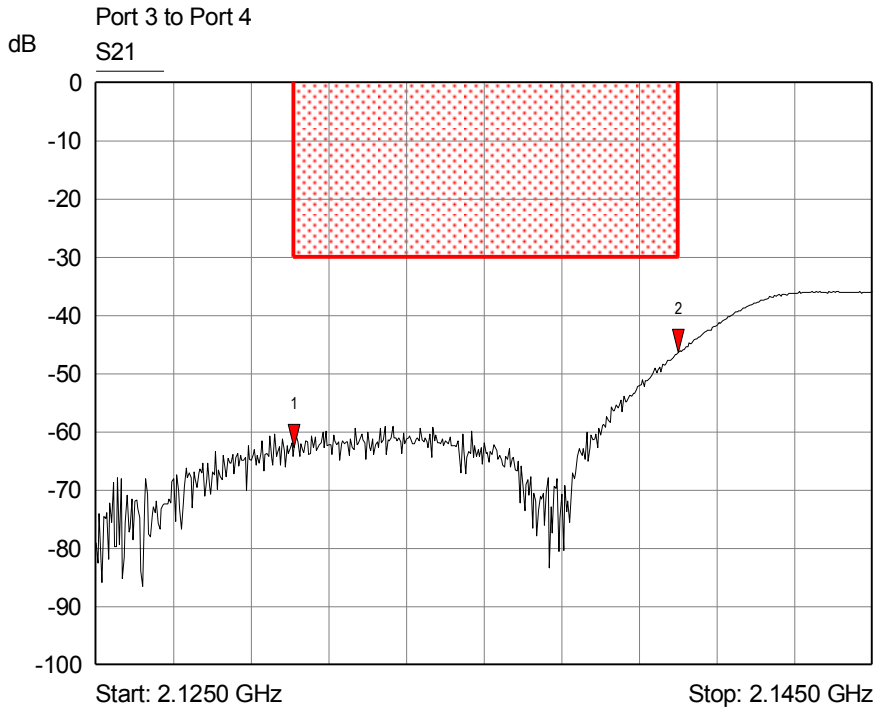
Isolation:



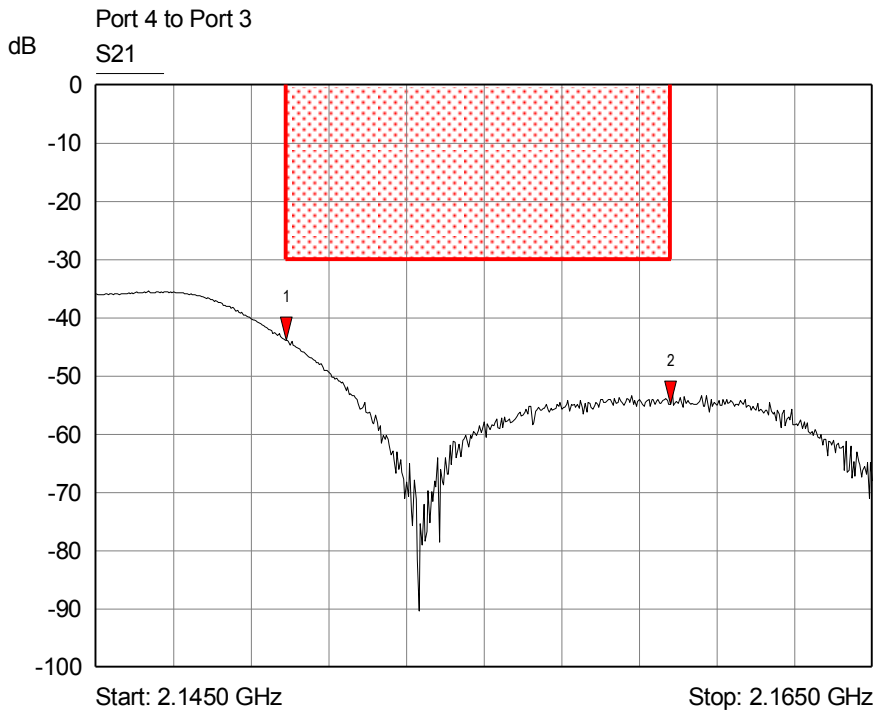
- 1 S21
▼ 2.1103 GHz
-59.9433 dB
- 2 S21
▼ 2.1202 GHz
-65.6775 dB



- 1 S21
▼ 2.1598 GHz
-67.2990 dB
- 2 S21
▼ 2.1697 GHz
-77.6151 dB



- 1 S21
▼ 2.1301 GHz
-62.6793 dB
- 2 S21
▼ 2.1400 GHz
-46.3251 dB



- 1 S21
▼ 2.1499 GHz
-43.8812 dB
- 2 S21
▼ 2.1598 GHz
-54.7595 dB