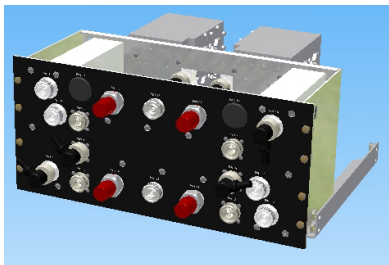
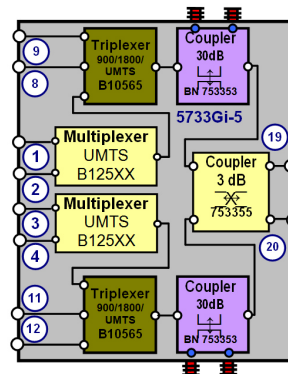


MULTIPLEXER - TRIPLEXER UNIT



not binding

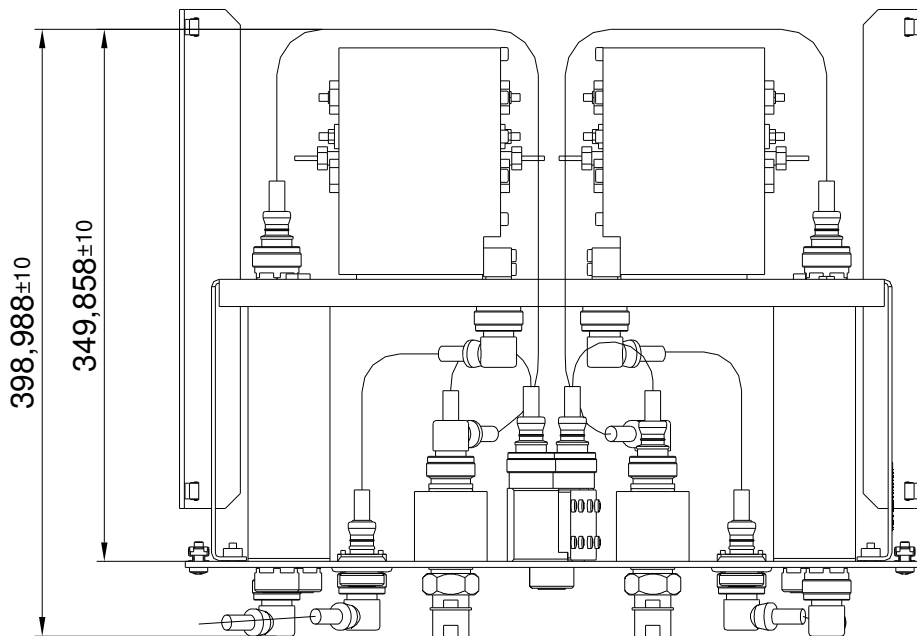
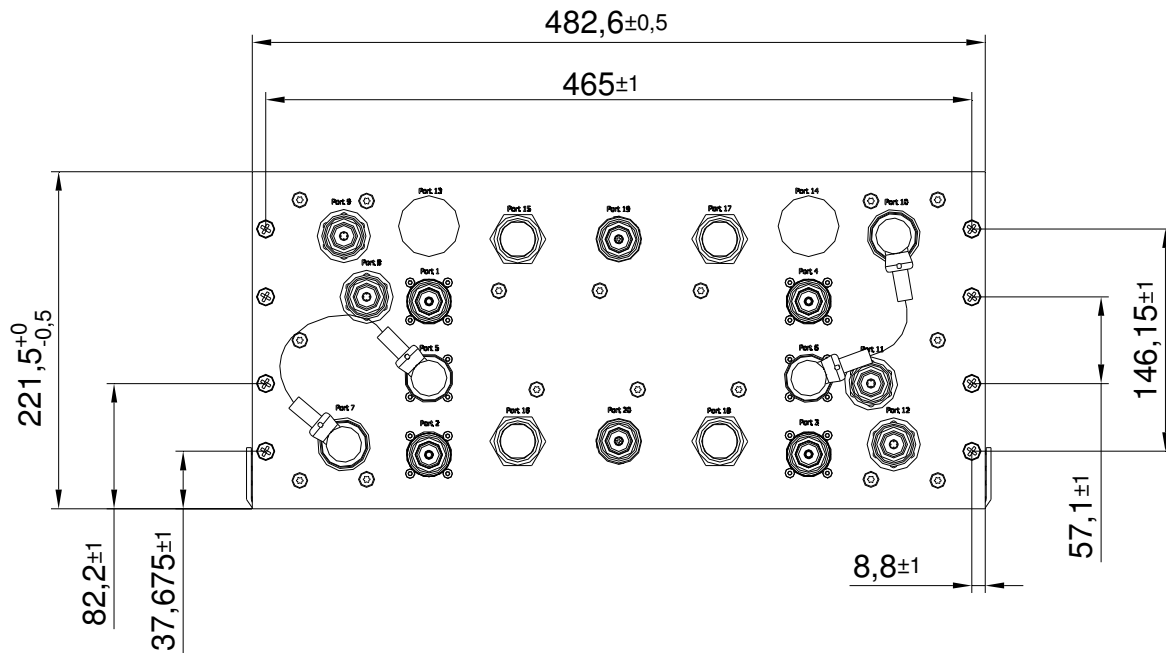


block diagram

Part number	BN 573450	
Basis module	BN5733GI-5	
Consisting of	2 pcs. UMTS Multiplexer (BN B12503) 2 pcs. Triplexer (BN 573630) 1 pcs. Coaxial directional coupler in "X" configuration (BN 753354) 2 pcs. Coaxial directional coupler in "H" configuration (BN 753353)	
Connectors	7-16 female (50 Ohms)	
Frequency range	Port 1	1920.3 - 1930.2 / 2110.3 - 2120.2 MHz (Vodafone)
	Port 2	1969.8 - 1979.7 / 2159.8 - 2169.7 MHz (T-Mobile)
	Port 3	1940.1 - 1950.0 / 2130.1 - 2140.0 MHz (E-Plus)
	Port 4	1959.9 - 1969.8 / 2149.9 - 2159.8 MHz (O2)
	Port 8 and 11	890 - 960 MHz (GSM 900)
	Port 9 and 12	1710 - 1880 MHz (GSM 1800)
Insertion loss	Port 1 or 2 → Port 19 or 20	≤ 6 dB
	Port 3 or 4 → Port 19 or 20	≤ 6 dB
	Port 8 or 11 → Port 19 or 20	≤ 4 dB
	Port 9 or 12 → Port 19 or 20	≤ 4 dB
Isolation	Port 1 → Port 2, 3, 8, 9 4, 11, 12	≥ 50 dB ≥ 80 dB
	Port 2 → Port 4 1, 8, 9 3, 11, 12	≥ 30 dB ≥ 50 dB ≥ 80 dB
	Port 3 → Port 4 1, 11, 12 2, 8, 9	≥ 30 dB ≥ 50 dB ≥ 80 dB
	Port 4 → Port 3, 2 11, 12 1, 8, 9	≥ 30 dB ≥ 50 dB ≥ 80 dB
	Port 8 → Port 11 1, 2, 3, 4, 9, 12	≥ 30 dB ≥ 80 dB
	Port 9 → Port 12 8 1, 2, 3, 4, 11	≥ 30 dB ≥ 50 dB ≥ 80 dB

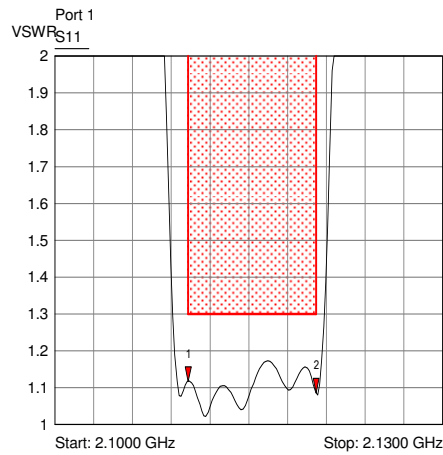
	Port 11 → Port 8 1, 2, 3, 4, 9, 12	≥ 30 dB ≥ 80 dB
	Port 12 → Port 9 11 1, 2, 3, 4, 8	≥ 30 dB ≥ 50 dB ≥ 80 dB
VSWR		≤ 1.3
Power rating	Port 1, 2, 3, 4 Port 5, 7 Port 6, 8	65 W CW max. 240 W CW max. 240 W CW max.
IM – value 3rd order @ 2 x 20 W		≤ -155 dBc typical: ≤ -160 dBc
Special feature		DC bypass (max. 1 A per input) on Port 8, 9 → Port 19 on Port 11, 12 → Port 20
Degree of protection mated / 1bar, 1h, ≤18°C		IP 20
Environmental conditions		ETSI EN 300019-1-1 Class 1.2 ETSI EN 300019-1-2 Class 2.3 ETSI EN 300019-1-3 Class 3.3
Temperature range		-5 °C– +55 °C

Dimensions:

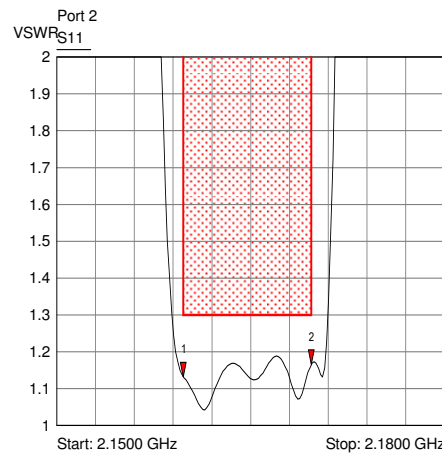


Measurements:

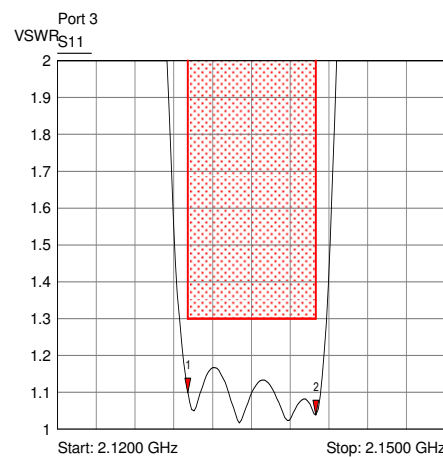
VSWR:



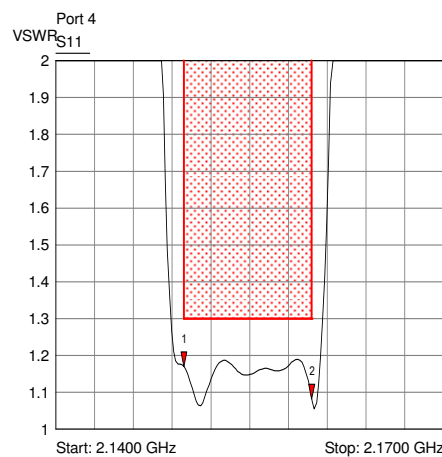
- 1 S11
▼ 2.1103 GHz
1.1173 VSWR
- 2 S11
▼ 2.1202 GHz
1.0851 VSWR



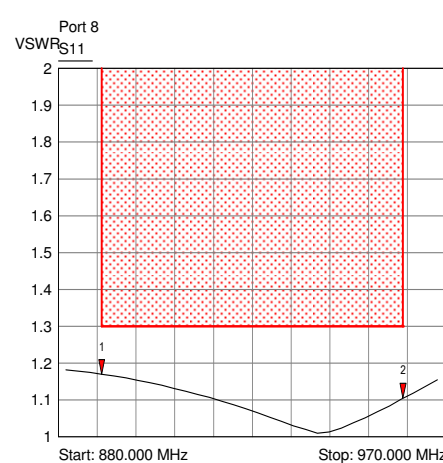
- 1 S11
▼ 2.1598 GHz
1.1323 VSWR
- 2 S11
▼ 2.1697 GHz
1.1653 VSWR



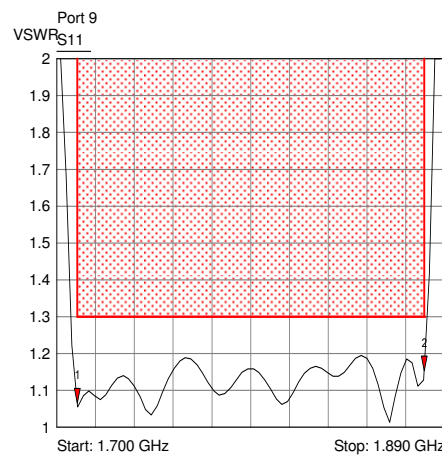
- 1 S11
▼ 2.1301 GHz
1.0982 VSWR
- 2 S11
▼ 2.1400 GHz
1.0377 VSWR



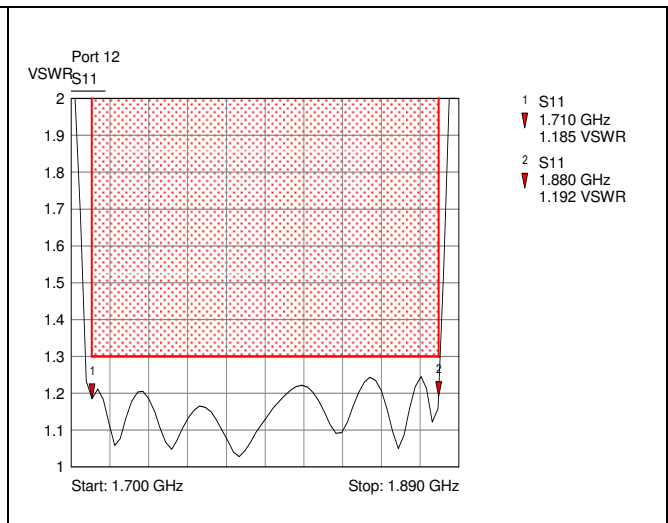
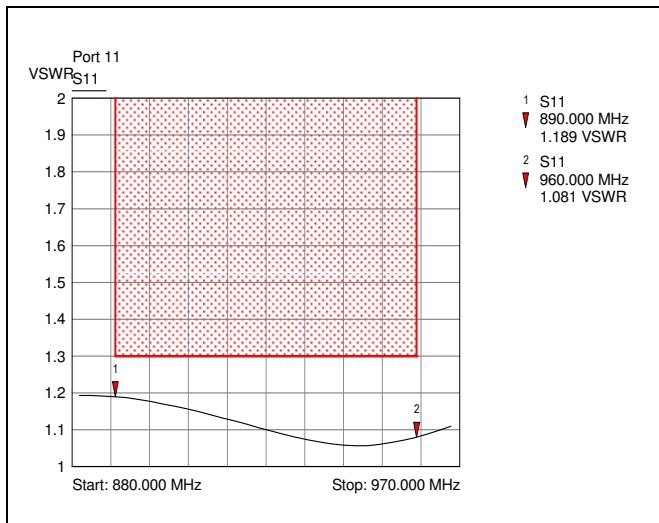
- 1 S11
▼ 2.1499 GHz
1.1703 VSWR
- 2 S11
▼ 2.1598 GHz
1.0830 VSWR



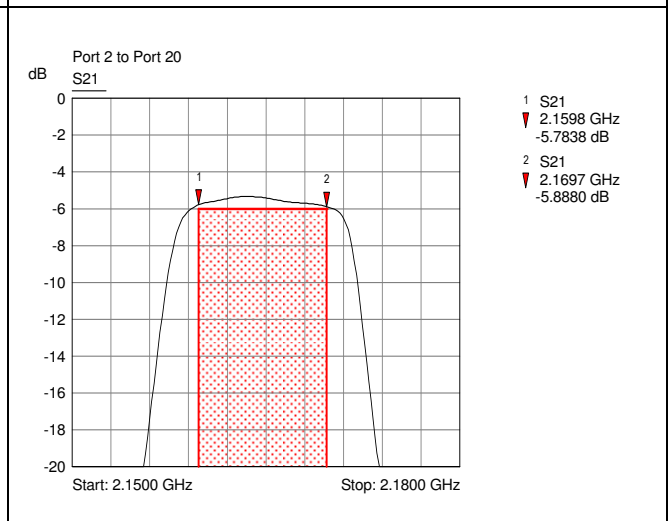
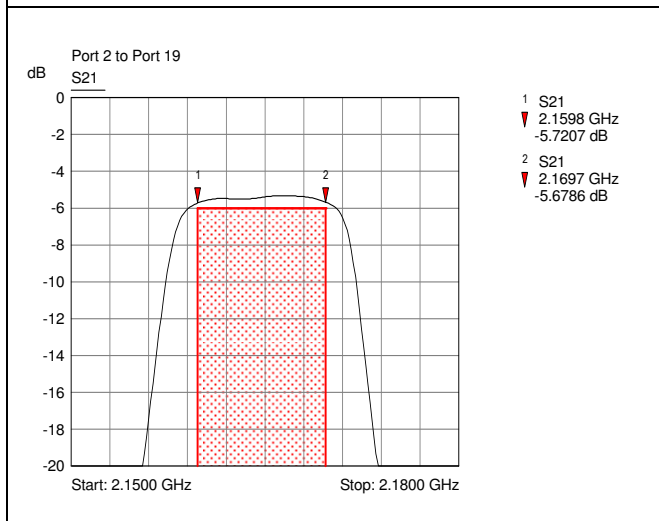
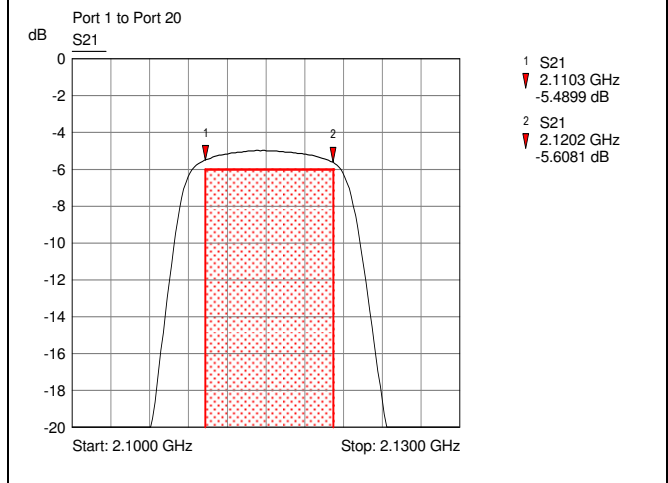
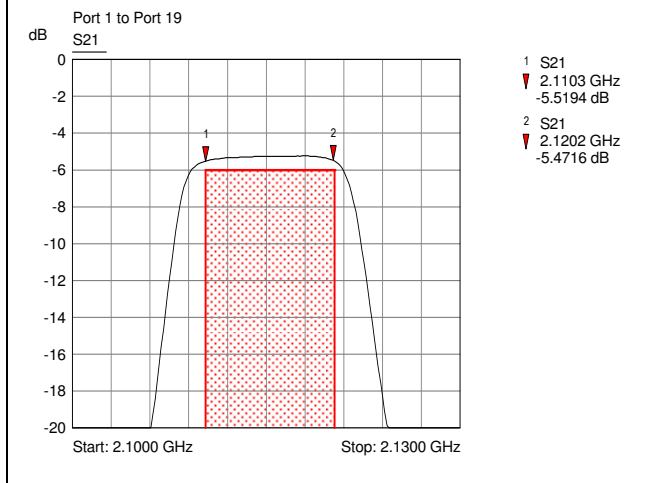
- 1 S11
▼ 890.000 MHz
1.171 VSWR
- 2 S11
▼ 960.000 MHz
1.104 VSWR

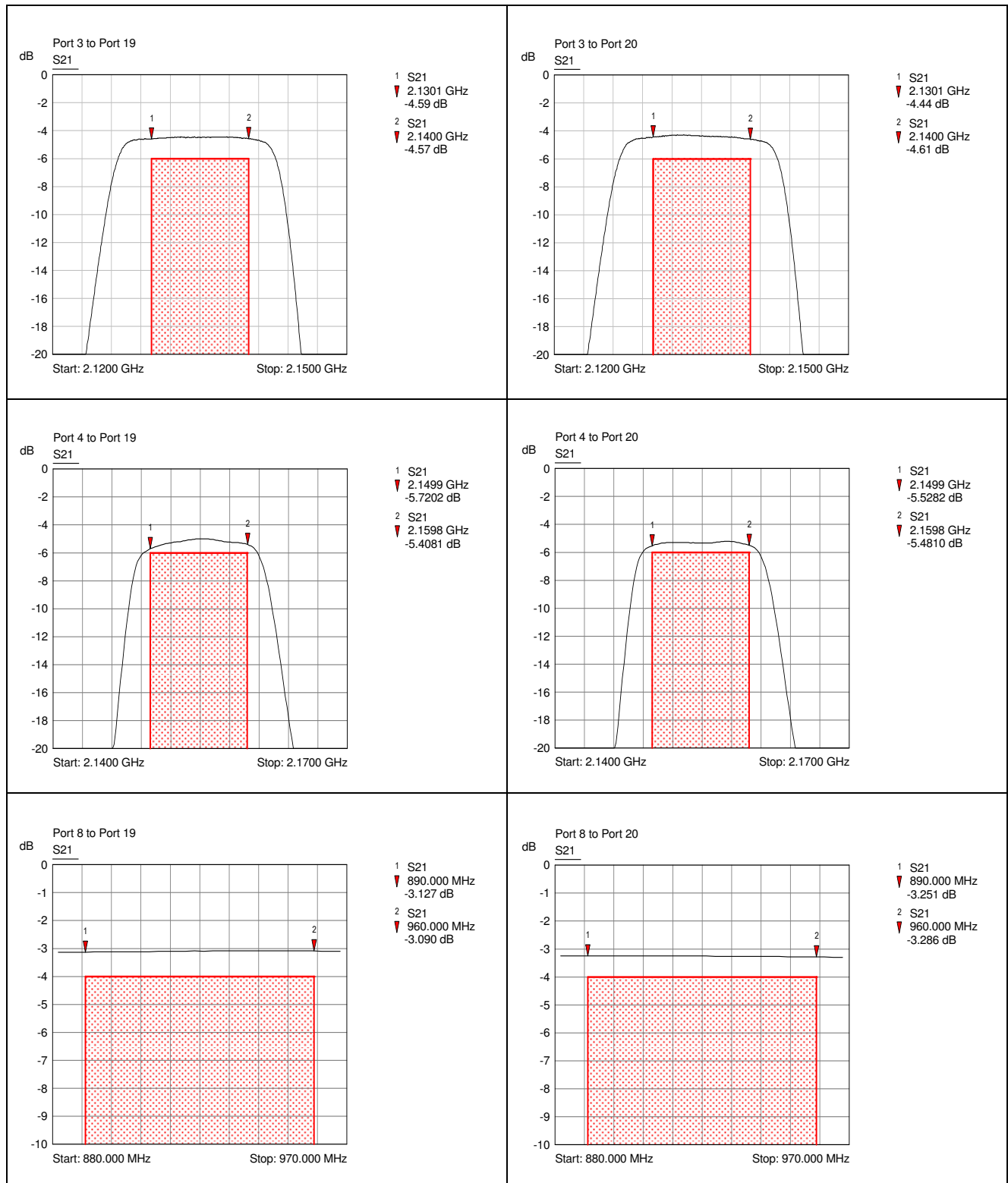


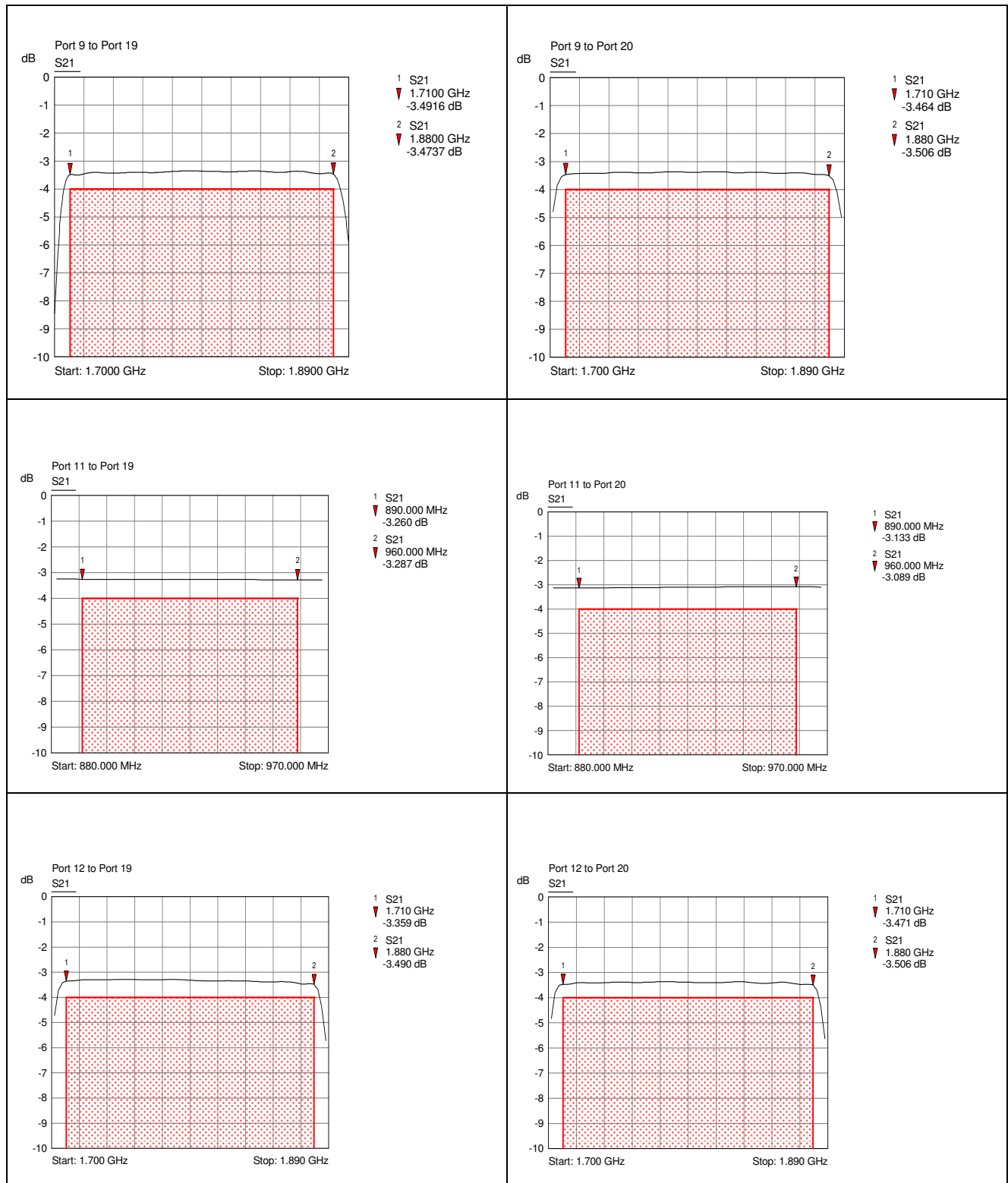
- 1 S11
▼ 1.710 GHz
1.066 VSWR
- 2 S11
▼ 1.880 GHz
1.154 VSWR



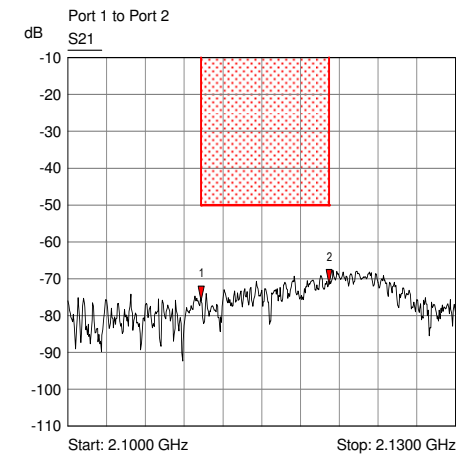
Insertion loss:



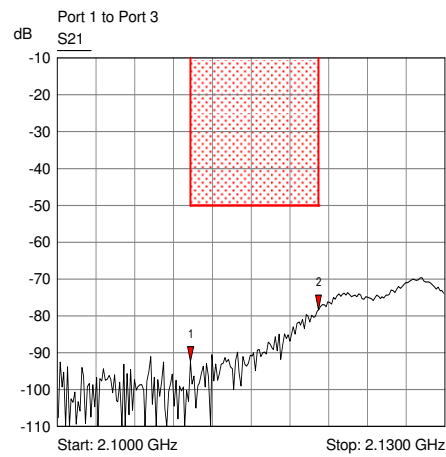




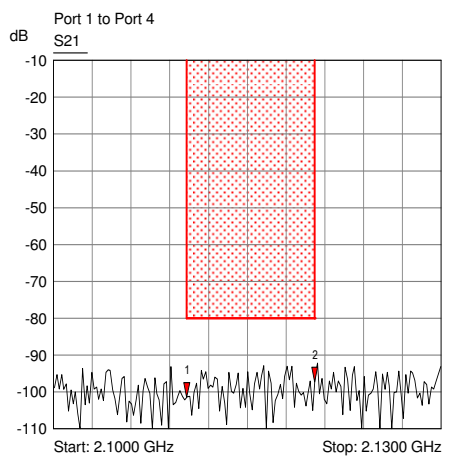
Isolation:



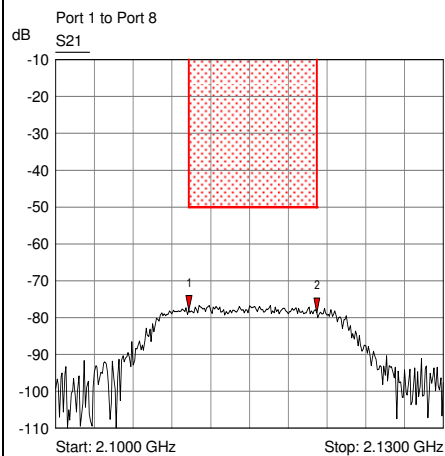
- 1 S21
▼ 2.1103 GHz
-75.99 dB
- 2 S21
▼ 2.1202 GHz
-71.47 dB



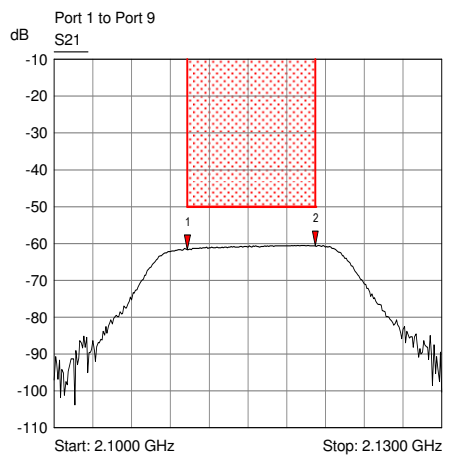
- 1 S21
▼ 2.1103 GHz
-92.3268 dB
- 2 S21
▼ 2.1202 GHz
-78.3556 dB



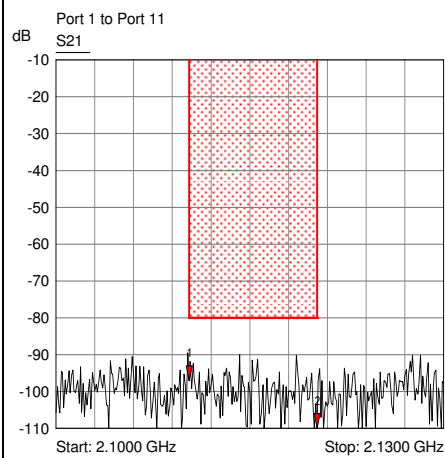
- 1 S21
▼ 2.1103 GHz
-101.5099 dB
- 2 S21
▼ 2.1202 GHz
-97.3943 dB



- 1 S21
▼ 2.1103 GHz
-78.0430 dB
- 2 S21
▼ 2.1202 GHz
-78.7364 dB



- 1 S21
▼ 2.1103 GHz
-61.6129 dB
- 2 S21
▼ 2.1202 GHz
-60.7395 dB



- 1 S21
▼ 2.1103 GHz
-96.9612 dB
- 2 S21
▼ 2.1202 GHz
-113.3139 dB

