

## Duplexer GSM900/GMS1800-UMTS

The duplexer DX-5 is a filter, which provides possibility to divide or combine RF-signals from GSM900 and GSM1800-UMTS frequency bands.

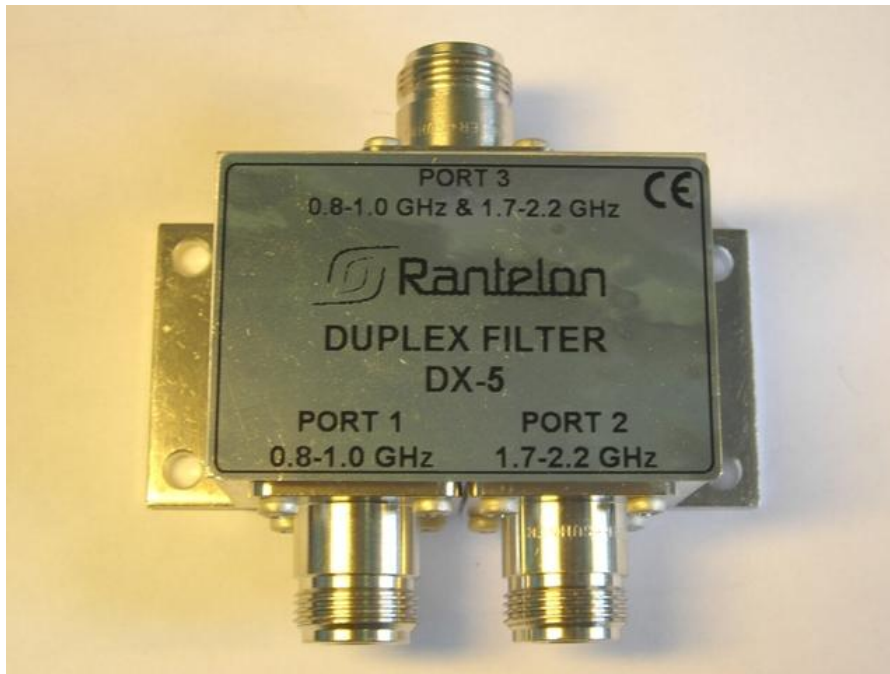


Figure 1: DX-5 Top view

### Technical specifications:

Number of ports	3
Operating frequency bands: common port <> GSM900 port common port <> GSM1800-UMTS port	880-960MHz 1710-2200MHz
Insertion loss: 900MHz 1800MHz 2100MHz	0.3dB 0.6dB 0.6dB
Return loss	>18dB in operating bands typically > 20dB
Rejection ratio: 900MHz 1800MHz 2100MHz	> 27dB > 27dB > 25dB
Connectors	N-Type
Dimensions	40 x 60 x 35mm

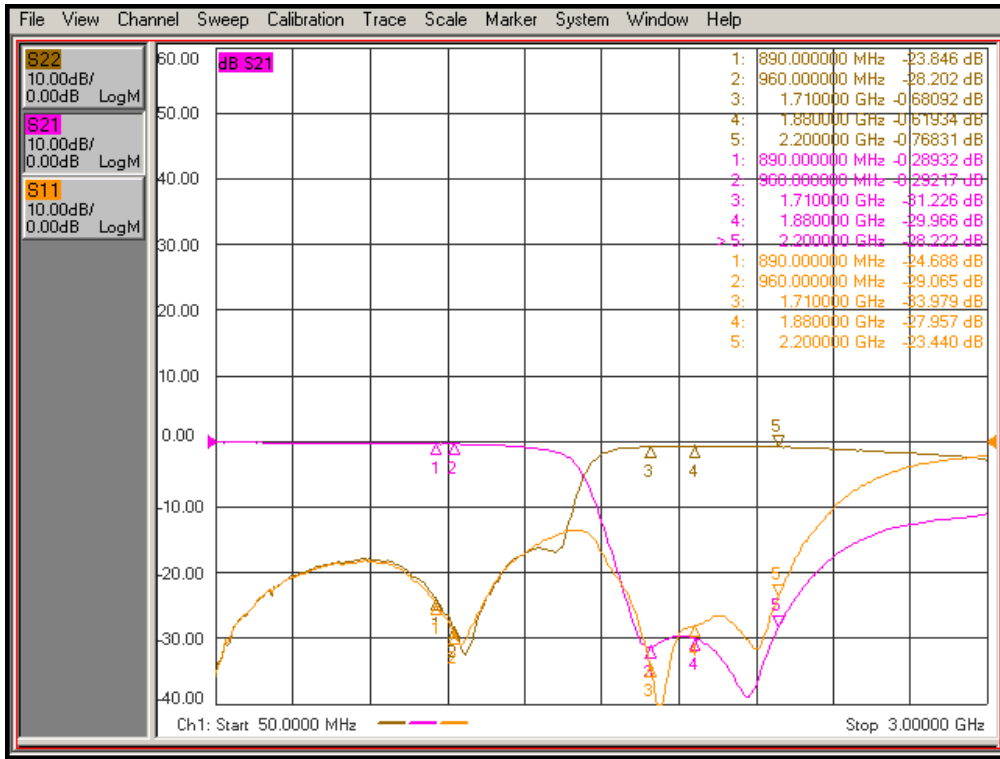


Figure 2: S11, S22 and S21 (transmission) from common port to GSM900 port.

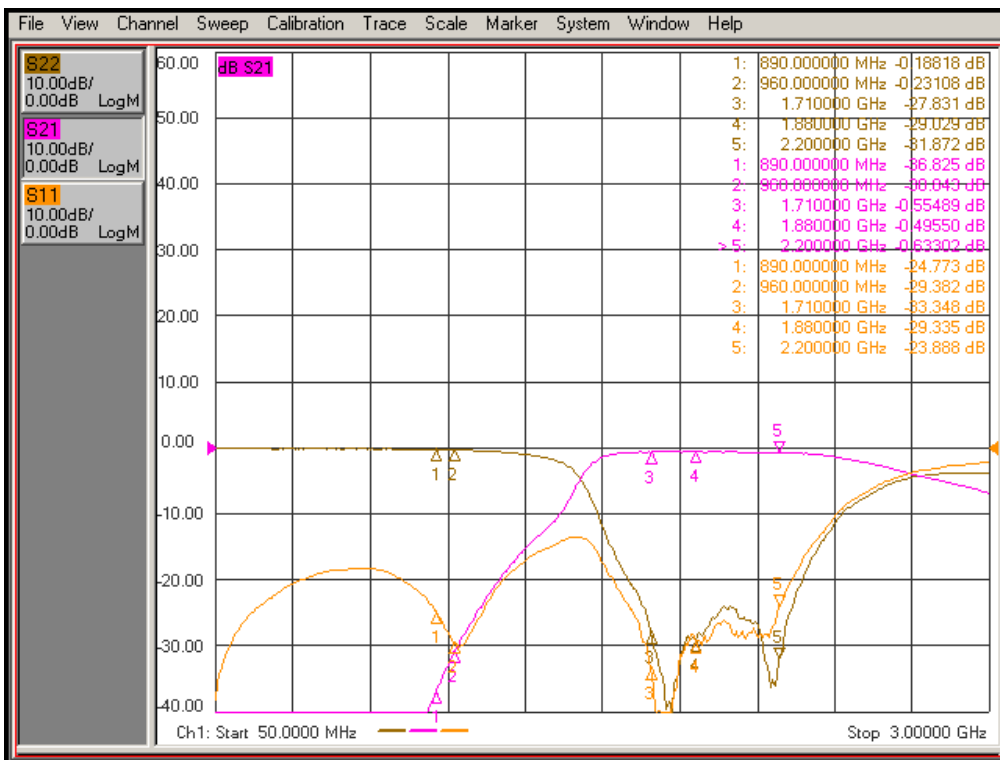


Figure 3: S11, S22 and S21 (transmission) from common port to GSM1800-UMTS port.