



TMA GSM Diplexer with 2 RX Filters
RX & RX1 Filter : 881 - 906 MHz
TX Filter : 921 - 946 MHz

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This diplexer was designed to work for GSM applications. It has 2 RX bands. The signal coming from the antenna passes through the RX filter, gets amplified by an LNA and then passes through the RX1 filter, before exiting the diplexer through the 7/16 connectors and going down the pole to the base station. This architecture saves a cable to the antenna.

TMA GSM Diplexer Characteristics

Low Filter (RX)

Bandwidth	881 – 906 MHz (Bandwidth 25 MHz)
Insertion Loss	< 1.5 dB
Return Loss	> 16 dB
Rejection	> 90 dB btw 921 – 946 MHz (TX BW)

Low Filter (RX1)

Bandwidth	881 – 906 MHz (Bandwidth 25 MHz)
Insertion Loss	< 1.0 dB
Return Loss	> 16 dB
Rejection	> 50 dB btw 921 – 946 MHz (TX BW)

High Filter (TX)

Bandwidth	921 – 946 GHz (Bandwidth 25 MHz)
Insertion Loss	< 0.5 dB
Return Loss	> 18 dB
High Filter Rejection	> 50 dB btw 881 – 906 MHz (RX BW)

Dimensions	around 200x115x75 mm (cable not included in the measurement)
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Connectors	2 7/16 Female, 2 SMA Female
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