

18 GHz Waveguide Diplexer



WR51-R180 WG

Slim (10 mm thick)

≥ 65 dB of TX-RX Isolation – IL ~ 0.7 dB

Low Filter 17.667 ÷ 18.180 GHz High Filter 19.227 ÷ 19.740 GHz

Microwavefilters & TVCsrl

Via G. Cavalcanti, 10 - 20063 Cernusco s/N (MI) - ITALY
Tel. +39-02-92162703 Fax. +39-02-92162705

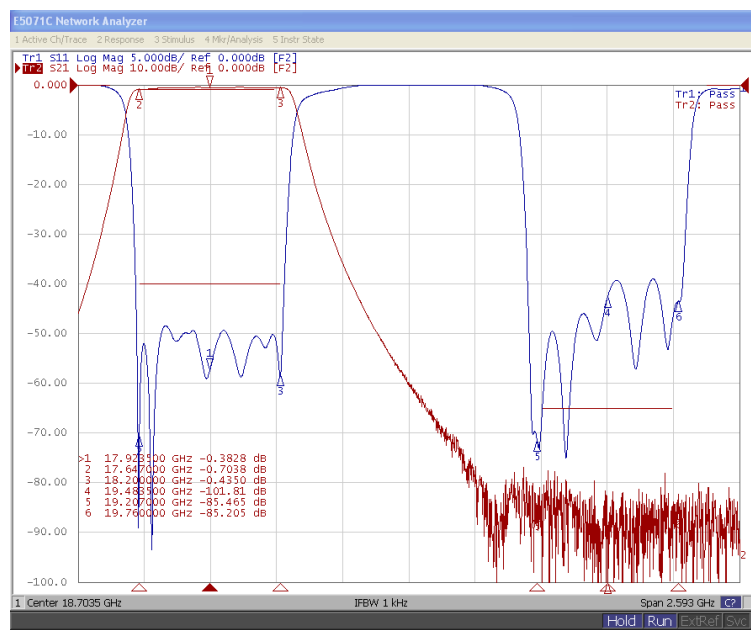
info@mw-tvc.com www.mw-tvc.com

This 18 GHz diplexer is very compact (only 16 mm thick, including the tuning screws). It has a typical rejection of 70 dB of TX over RX and vice versa, with a shift of 1560 MHz between passbands. It's in WR51 waveguide to improve IL and GD.

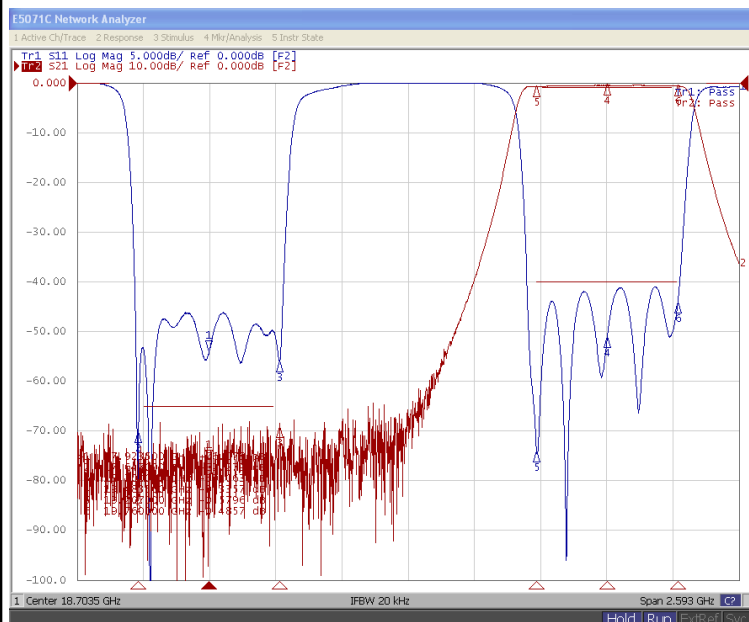
Diplexer Characteristics – P/N MW-D18700-FFFT

Low Filter Bandwidth	17.667 ÷ 18.180 GHz
High Filter Bandwidth	19.227 ÷ 19.740 GHz
Return Loss	≥ 20 dB
Insertion Loss	≤ 1.0 dB (0.7 dB typical)
Low Filter Rejection	≥ 65 dB from 19.227 GHz to 19.740 GHz
	≥ 65 dB at 16.620 GHz
High Filter Rejection	≥ 55 dB from 17.667 GHz to 18.180 GHz
	≥ 55 dB at 20.787 GHz
Temperature Range	-33 °C ÷ +70 °C
Dimensions	170 x 60 x 10 mm (excluding tuning screws)
Ports	3 x UBR180 Flanges

LOW FILTER – Typical Frequency Response



HIGH FILTER – Typical Frequency Response



MECHANICAL OUTLINE

