

Microwavefilters® &

Microwave components for telecommunication systems

3.5 GHz Bandpass Filter



IL \leq 1.7 dB (BW=40 MHz)
Rejection $>$ 50 dB up to 13 GHz
Compact thanks to transmission zeros

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MW&TVC presents a new bandpass filter with IL < 1.7 dB in the passband (40 MHz) and no spurious response up to 13 GHz (rejection > 50 dB). Dimensions are small (just 50x35x17 mm, excluding connectors and tuning screws), also thanks to the two transmission zeros, one below and the other above the passband.

Main Characteristics of MW-F03500-CCT

Center Frequency f_0 : 3.500 GHz

Passband: 3.480 ÷ 3.520 GHz

Return Loss \geq 14 dB (VSWR 1.5: 1 max)

Insertion Loss \leq 1.7 dB

Rejection between DC ÷ 2.690 GHz \geq 80 dB

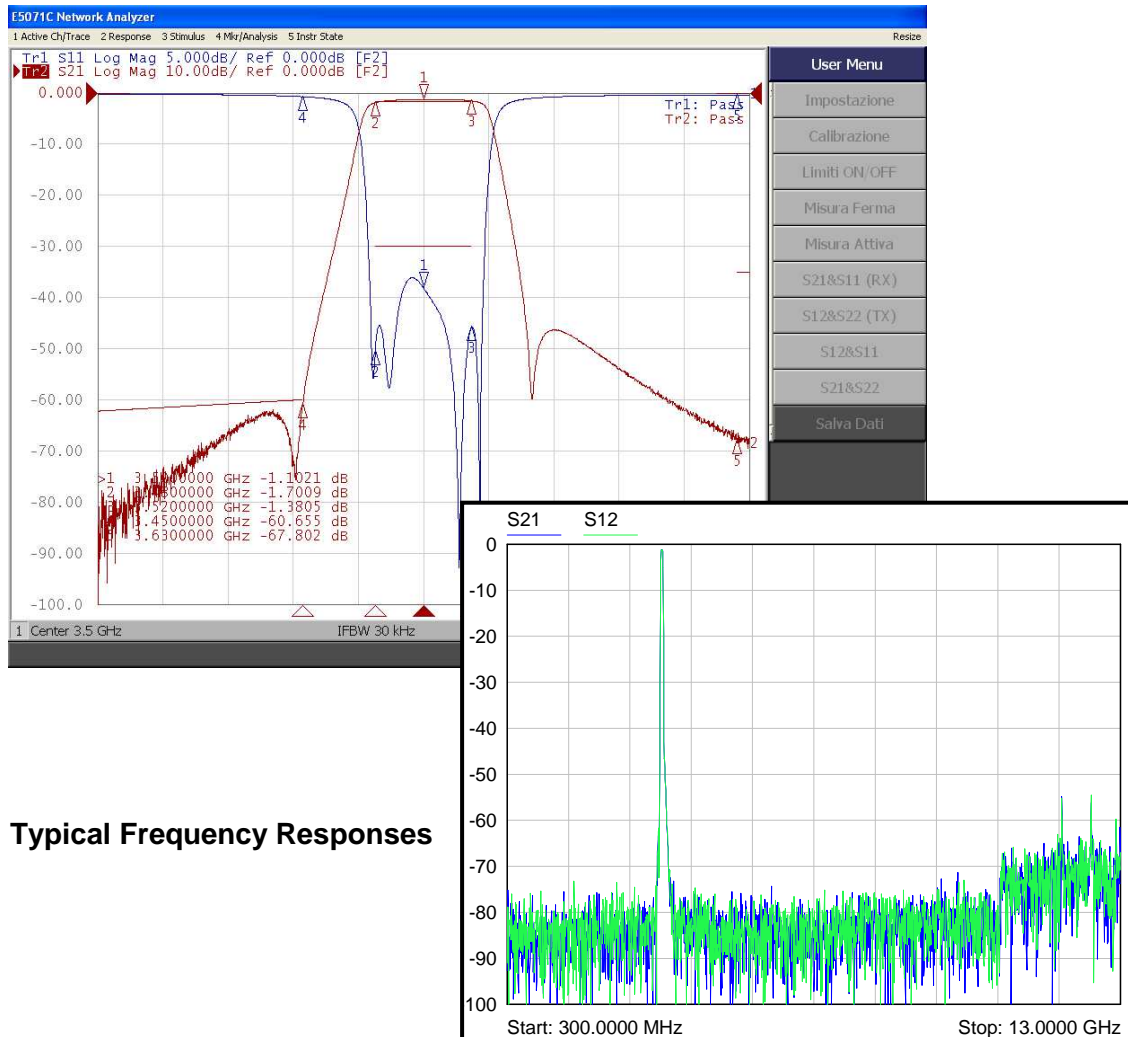
Rejection at 3.450 GHz \geq 60 dB

Rejection between 3.630 ÷ 12.750 GHz \geq 35 dB

Dimensions: 50 x 35 x 22 mm, excluding tuning screws and connectors

Input /Output Connectors: 2xSMA Female

Internal Finishing: Silver-plating



Typical Frequency Responses

Mechanical Outline

