

Microwavefilters® &

Microwave components for telecommunication systems



Dual Filter
2505 MHz &
2570 MHz

compact,
low loss and
small group delay

GD \leq 19.5 ns at F0
IL \leq 1.0 dB (BW=48 MHz)

Microwavefilters & TVC srl

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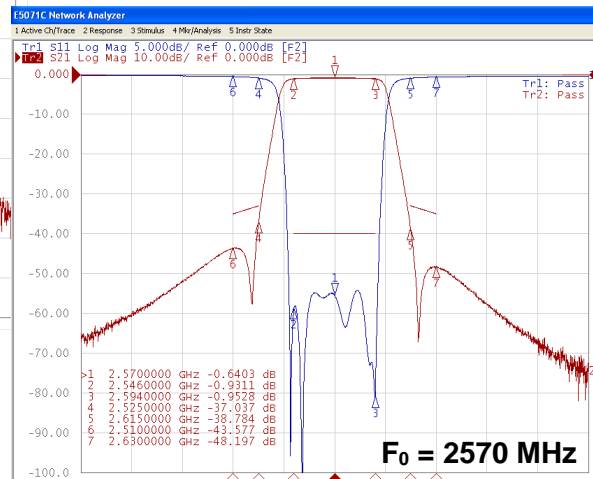
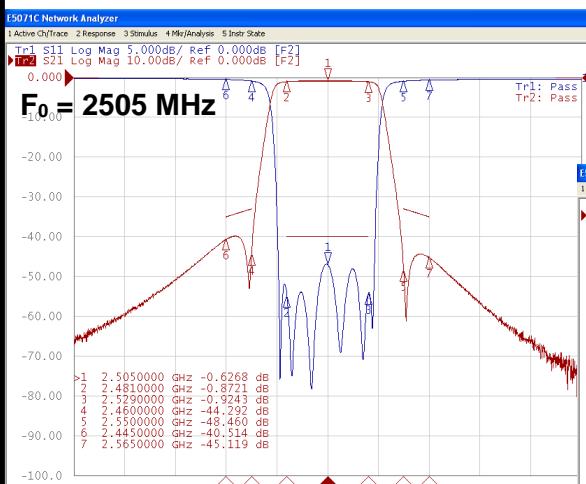
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MW&TVC presents a new dual filter (two BPFs in the same housing), with IL < 1dB in the passband and group delay < 18 ns at center frequency F_0 ($F_0=2505$ MHz and 2570 MHz). Dimensions are small (just 72x40x48 mm, excluding tuning screws). Each filter has two transmission zeros, one above and the other below the passband.

Main Characteristics (P/N MW10245-F90)

Dual Filter 2505-2570MHz	Filter 1	Filter 2
Center Frequency (MHz)	2505	2570
Equi-ripple bandwidth (MHz)	+/- 24 MHz	+/- 24 MHz
Passband ripple (dB)	0.1	0.1
Return Loss (dB)	20	20
Insertion Loss (dB)	<1	<1
Group delay (nsec)	<19.5 at F_0	<19.5 at F_0
Stopband rejection	33dB @ 45 MHz offset and 35 dB @ 60 MHz with monotonically increasing rejection outside this range.	33dB @ 45 MHz offset and 35 dB @ 60 MHz with monotonically increasing rejection outside this range.
Connectors	SMA	SMA
Temperature Range (deg C)	-35 to 65	-35 to 65
Temperature Stability ppm/deg C	+/- 3	+/- 3
Dimensions (mm)	72 x 40 x 48	

Typical Frequency Responses



Mechanical Outline

