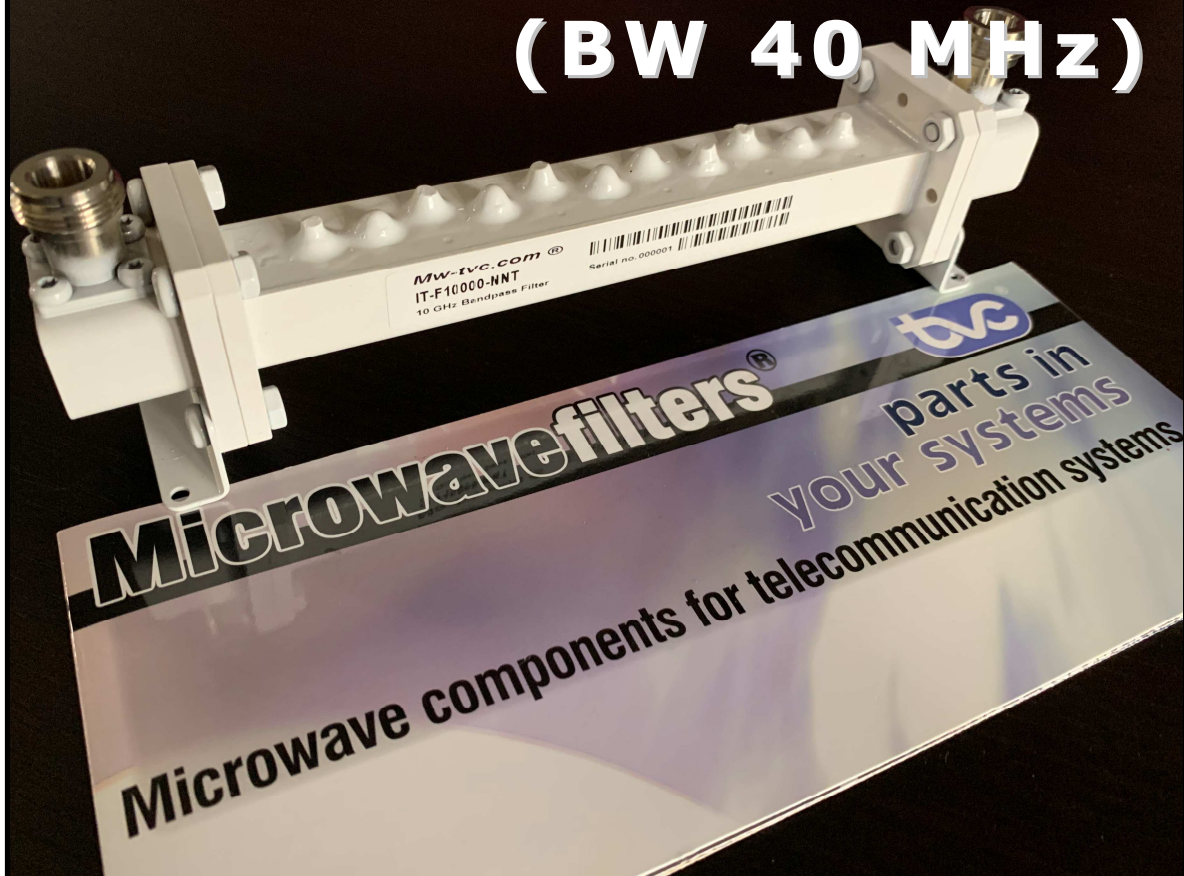


Microwavefilters® &

Microwave components for telecommunication systems

10 GHz Channel Filter (BW 40 MHz)



**WR75 Waveguide with
N-Female Input/Output,
 $IL \leq 2.0$ dB in Pass-band**

Microwavefilters & TVC srl

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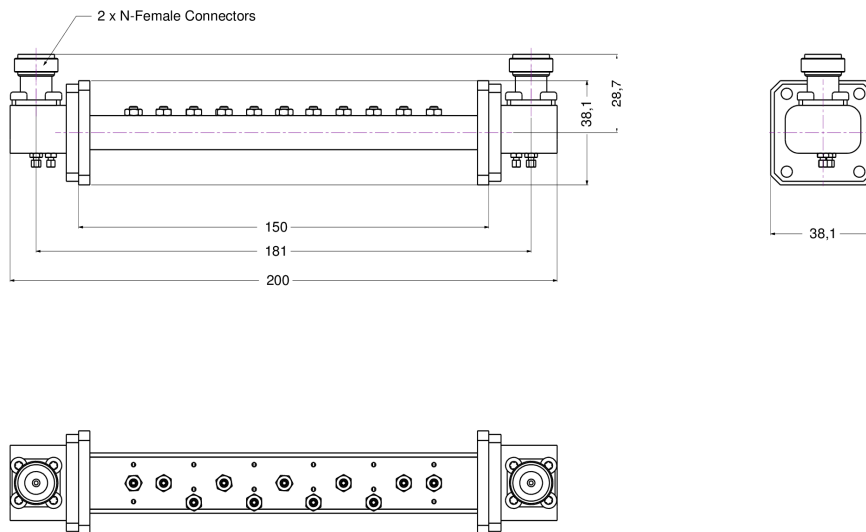
info@mw-tvc.com www.mw-tvc.com

MW&TVC presents a new waveguide channel filter (BW=40 MHz) with coax-to-waveguide adapters at the input/output. Insertion loss $IL \leq 2.0$ dB in the whole pass-band).

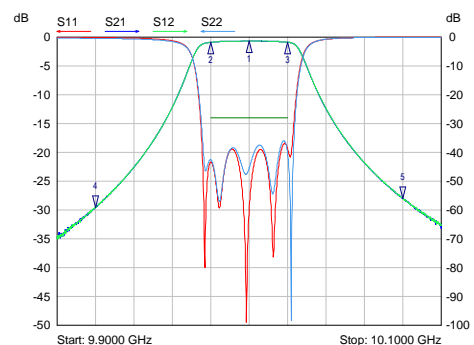
Bandpass Filter Characteristics

Central Frequency F_0	10.00 GHz
Bandwidth BW	40 MHz
Number of Resonators	5
Return Loss	≥ 14 dB
Insertion Loss in the Passband	≤ 2.0 dB
Rejection @ $F_0 \pm 80$ MHz	≥ 50 dB
Power Handling	150W (52 dBm)
Waveguide	WR75 (R120)
Dimensions	200 x 38.1 x 38.1 mm
Input/ Output Ports	2 x N-Female Connectors
Material	INVAR (Filter) + Aluminium (Adapter)

Mechanical Outline



Typical Frequency Response



Mkr#	Trace	X-Axis	Value	Notes
1	∇ S21	10.0000 GHz	-1.38 dB	
2	∇ S21	9.9800 GHz	-1.83 dB	
3	∇ S21	10.0200 GHz	-1.80 dB	
4	∇ S21	9.9200 GHz	-59.24 dB	
5	∇ S21	10.0800 GHz	-55.94 dB	