

Microwavefilters® &

Microwave components for telecommunication systems

10 GHz Channel Filters (BW 28 MHz)



WR75 Waveguide, 5 Poles
IL \leq 1.5 dB in Pass-band

Microwavefilters & TVC srl

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

Microwave components for telecommunication systems

MW&TVC presents a new waveguide channel filter (BW=28 MHz) with very low insertion loss (IL ≤ 1.5 dB over the whole pass-band).

Bandpass Filter Characteristics

Central Frequency F_0 Tuning Range **10.00 \div 10.35 GHz (Type A)**
10.35 \div 10.70 GHz (Type B)

Bandwidth BW **28 MHz**
Return Loss **≥ 25 dB**
Insertion Loss in the Passband **≤ 1.5 dB**
Rejection @ $F_0 \pm 35$ MHz **≥ 20 dB**
Group Delay **≤ 7 ns**

Waveguide **WR75 (R120)**
Dimensions **150 x 38.1 x 38.1 mm**
Input/ Output Ports **2 UBR120 Flanges**
Material **INVAR**



Mkr	Trace	X-Axis	Value	Notes
1	S21	10.3500 GHz	-1.19 dB	
2	S21	-14.0000 MHz	-0.26 dB	
3	S21	14.0000 MHz	-0.16 dB	

