

Microwavefilters® & ®

Microwave components for telecommunication systems

K-Band Filters 18-20 GHz for SatCom Applications



IL < 1 dB
High Rejection
Flat Group Delay
Compact Size

Microwavefilters & TVC srl

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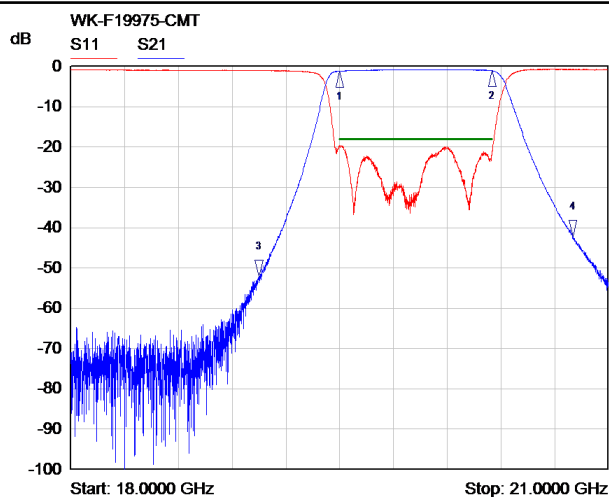
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MW&TVC presents a new family of bandpass filters in the K-Band (18-20 GHz). They are compact (70x16x11 mm, including tuning screws), with IL < 1dB, high rejection and flat group delay (< 1 ns in any 80 MHz interval). Connectors can be SMA female and/or male.

K-Band Bandpass Filter Family

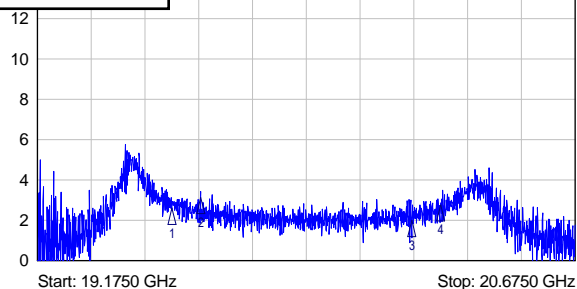
Code	Central Frequency f_0 (GHz)	BW (MHz)	RL (dB)	IL (dB)	Rejection (dB)	Dimensions ¹ (mm)
MW-F18575-CMT	18.575	850	≥ 18	≤ 1.0	≥ 50 @ 17.70 GHz ≥ 40 @ 19.45 GHz	70 x 16 x 11
MW-F19025-CMT	19.025	850	≥ 18	≤ 1.0	≥ 50 @ 18.15 GHz ≥ 40 @ 19.90 GHz	70 x 16 x 11
MW-F19475-CMT	19.475	850	≥ 18	≤ 1.0	≥ 50 @ 18.60 GHz ≥ 40 @ 20.35 GHz	70 x 16 x 11
MW-F19925-CMT	19.925	850	≥ 18	≤ 1.0	≥ 50 @ 19.05 GHz ≥ 40 @ 20.80 GHz	70 x 16 x 11

¹ Without connectors and including tuning screws.



An example of a typical frequency response (WK-F19925-CMT)

Mkr	Trace	X-Axis	Value	Notes
1	S21	19.5000 GHz	-1.04 dB	
2	S21	20.3500 GHz	-1.05 dB	
3	S21	19.0500 GHz	-52.08 dB	
4	S21	20.8000 GHz	-42.23 dB	



Mkr	Trace	X-Axis	Value	Notes
1	S21	19.5500 GHz	2.61 ns	
2	S21	19.6300 GHz	3.13 ns	
3	S21	20.2200 GHz	1.99 ns	
4	S21	20.3000 GHz	2.76 ns	