

# Microwavefilters® &

Microwave components for telecommunication systems

## L6 GHz Bandpass Filter



**IL ~ 0.5 dB (BW=110 MHz)**  
**Power Handling 200W Avg.**  
**Weatherproof for Outdoor Use (IP65)**

**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](mailto:info@mw-tvc.com) [www.mw-tvc.com](http://www.mw-tvc.com)

## Microwave components for telecommunication systems

MW&TVC presents a new bandpass filter at 6 GHz, for medium/high power applications. It can sustain 200 W of average power and 1 kW of peak power. IL is around 0.5 dB and there are no spurious response up to 11.14 GHz (rejection > 50 dB).

This filter is for outdoor use (IP65, weatherproof) and has two transmission zeros, one below and the other above the passband, to make it more compact and reduce losses.

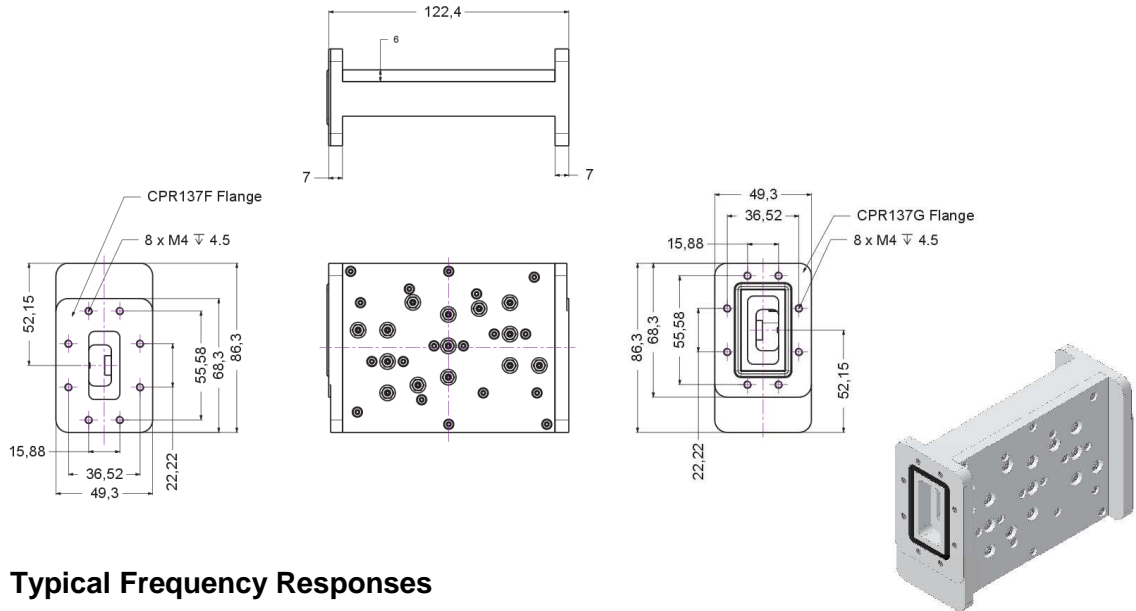
Parameter	Value
Part Number	MW-F05975-FFT
Passband	5.92 ÷ 6.03 GHz
Bandwidth	110 MHz
Return Loss	≥ 22.0 dB
Insertion Loss	≤ 1.0 dB
Rejection btw 5.67 ÷ 5.68 GHz	≥ 70 dB
Rejection btw 6.17 ÷ 6.28 GHz	≥ 70 dB
Rejection btw 6.50 ÷ 11.14 GHz	≥ 50 dB
Group Delay	≤ 10 ns at center frequency
Power Handling	200 W (Avg), 1 kW (Peak)
Operating Temperature	-40 °C ÷ +45 °C
Dimensions	122.4 x 86.3 x 49.3 mm (see also next page)
Input / Output Flanges	1 CPR137F & 1 CPR137G (gasket Included)
Environment	Weatherproof for Outdoor Use



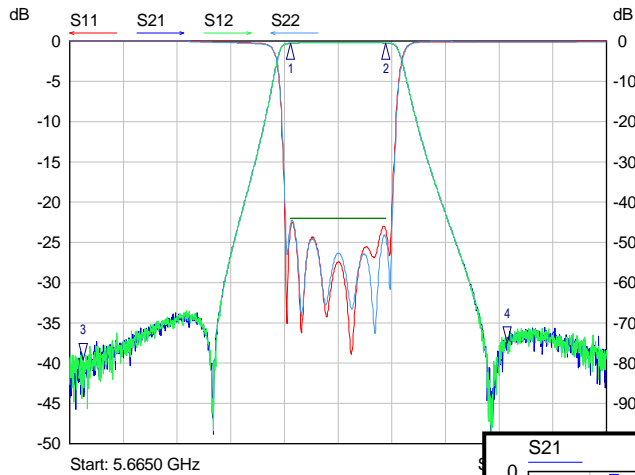
# Microwavefilters® &

Microwave components for telecommunication systems

## Mechanical Outline



## Typical Frequency Responses



Mkr	Trace	X-Axis	Value	Notes
1	S21	5.9200 GHz	-0.55 dB	
2	S21	6.0300 GHz	-0.44 dB	
3	S21	5.6800 GHz	-79.24 dB	
4	S21	6.1700 GHz	-74.89 dB	

