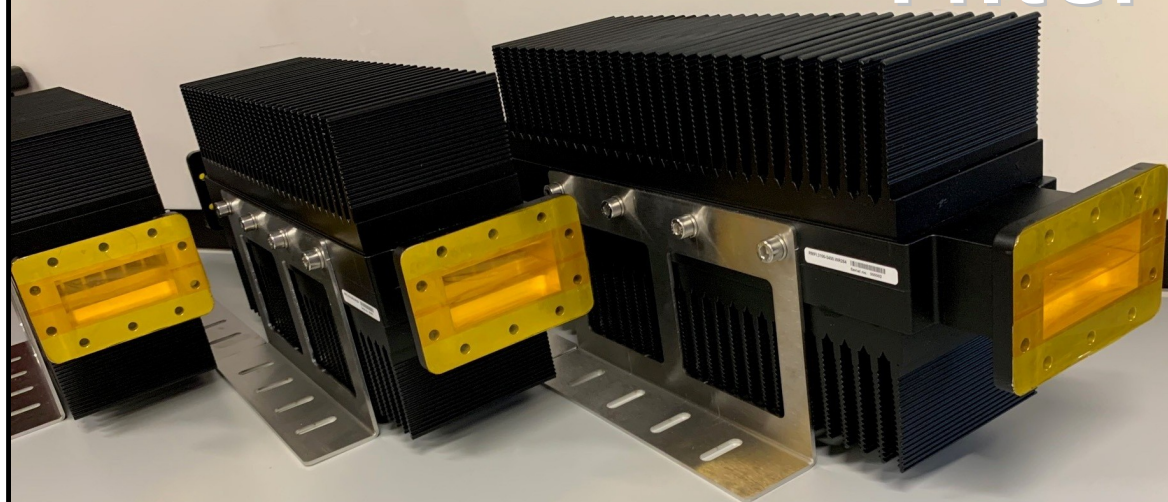


WR284 Bandpass Filter



Rejection > 50 dB
in 2nd and 3rd Harmonics

For Outdoor Use and High Power Applications (1 kW Avg of Power Handling)

Microwavefilters & TVC srl

Via G. Cavalcanti, 10 - 20063 Cernusco s/N (MI) - ITALY
Tel. +39-02-92162703 Fax. +39-02-92162705

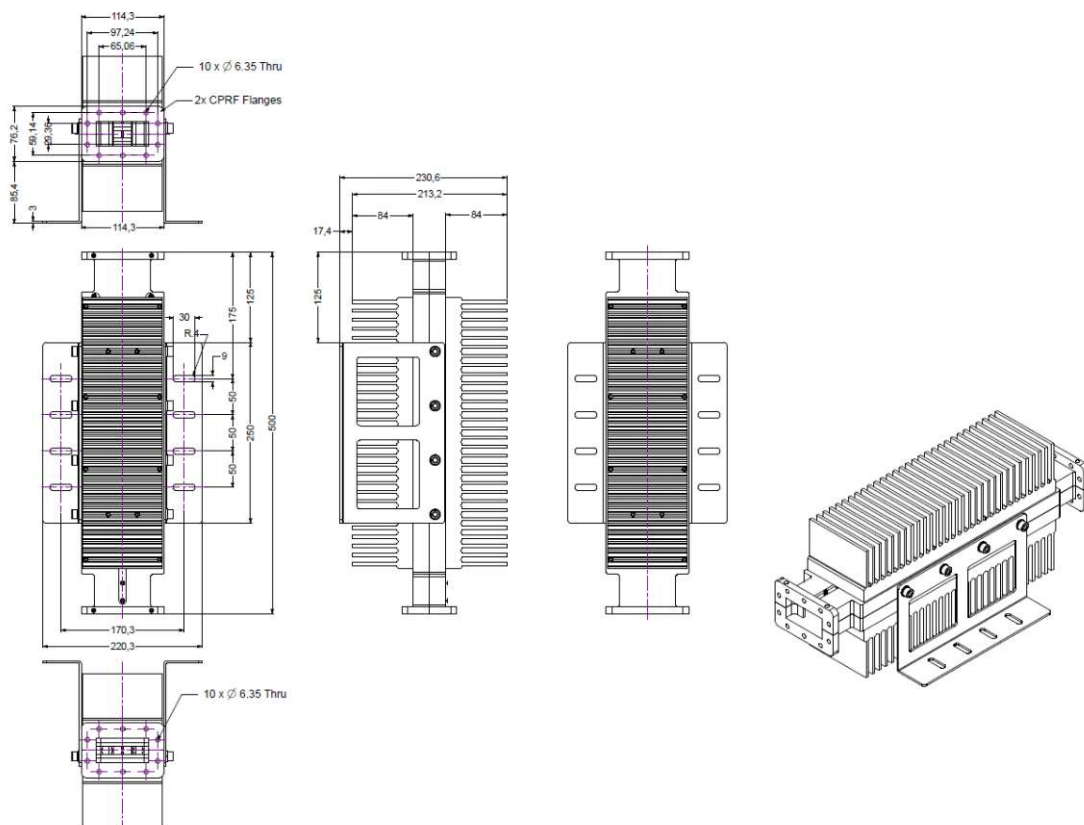
info@mw-tvc.com www.mw-tvc.com

MW&TVC presents a new WR284 waveguide filter for high power applications and for outdoor use. It can handle 1 kW of average power and 10 kW of peak power. Rejection in 2nd and 3rd Harmonics is better than 50 dB. To achieve this goal, a lowpass filter is embedded in the layout.

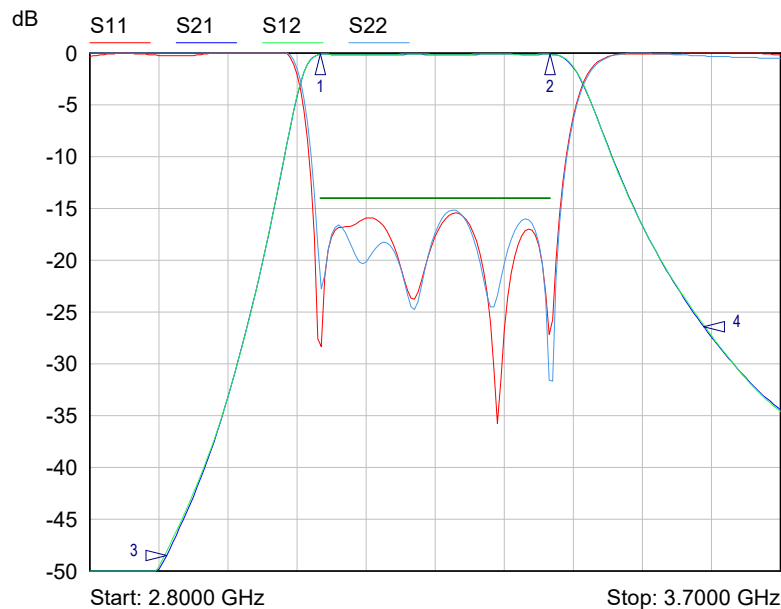
Main Characteristics

Part Number	RW-F03250-FFT
Passband	3.1 ÷ 3.4 GHz
Return Loss	≥ 14 dB (VSWR 1.5 : 1 max.)
Insertion Loss	≤ 0.5 dB
Rejection at 2.9 GHz	≥ 30 dB
Rejection at 3.6 GHz	≥ 20 dB
2 nd Harmonic Rejection (6.2 ÷ 6.8 GHz)	≥ 40 dB
3 rd Harmonic Rejection (9.3 ÷ 10.2 GHz)	≥ 50 dB
Passband Power Handling	5 kW at 20% duty cycle (1kW avg), 10 kW peak
Input/Output Ports	2 x CPR284F (Flat) Flanges
Finishing	Black Epoxy Painting
Dimensions	500 x 114.3 x 230.6 mm

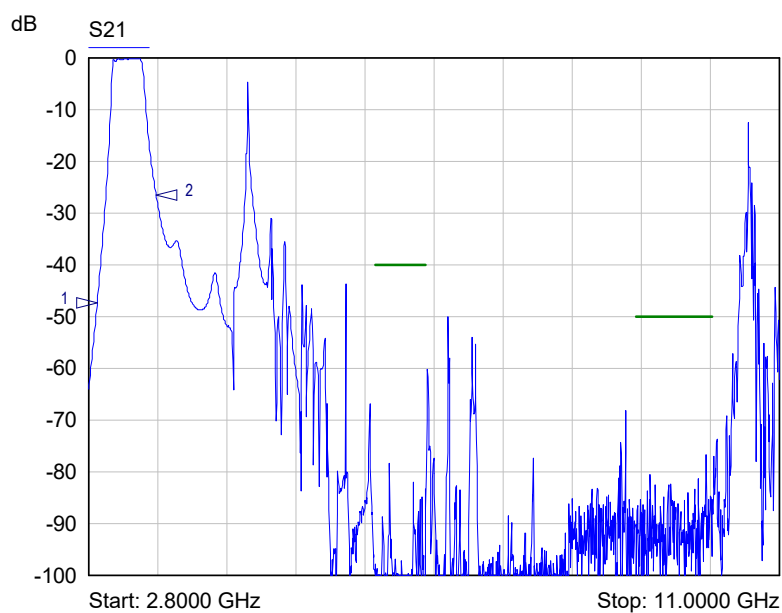
Mechanical Outline



Typical Frequency Responses



Mkr	Trace	X-Axis	Value	Notes
1 ▽	S21	3.1000 GHz	-0.13 dB	
2 ▽	S21	3.4000 GHz	-0.12 dB	
3 ▽	S21	2.9000 GHz	-48.49 dB	
4 ▽	S21	3.6000 GHz	-26.42 dB	



Mkr	Trace	X-Axis	Value	Notes
1 ▽	S21	2.9000 GHz	-47.35 dB	
2 ▽	S21	3.6000 GHz	-26.51 dB	