

High-Power Lowpass Filter



Rejection from 29.6 GHz to 45.6 GHz

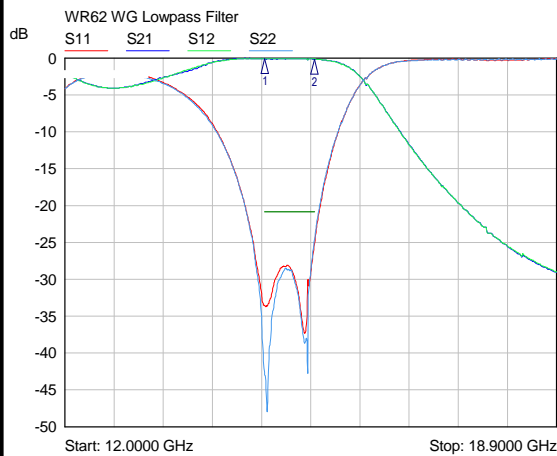
Microwavefilters & TVC srl

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This new lowpass filter works in the 14.8÷15.5 GHz band and is designed to sustain high power (1150 W Avg.). It is compact (74.2x33.3x40 mm, including heatsinks), low loss (IL is around 0.15 dB) and with a very wide rejection band (≥ 50 dB of attenuation in the frequency range 29.6÷45.6 GHz).

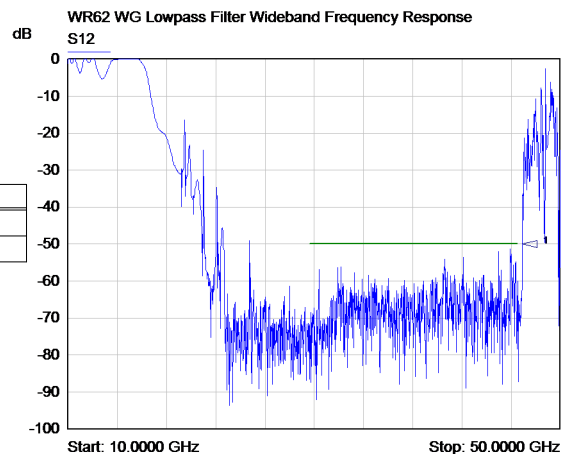
Lowpass Filter Characteristics (P/N MW-F15150-FF)

Frequency range	14.8 ÷ 15.5 GHz
Insertion Loss	≤ 0.25 dB (0.15 dB typ.)
Return Loss	≥ 20.8 dB (VSWR 1.2: 1 max.)
Rejection between 29.6÷45.6 GHz	≥ 50 dB
Operating Temperature Range	-20 °C ÷ +55 °C
Power Handling	1150 W (Avg.)
Dimensions	74.2 x 33.3 x 40.0 mm
Input /Output Ports	PBR140 / UBR140
Finishing	Surtec 650 and Black Paint (RAL9005)



Mkr	Trace	X-Axis	Value	Notes
1	S21	14.8000 GHz	-0.09 dB	
2	S21	15.5000 GHz	-0.13 dB	

Typical Frequency Response Curves



Mkr	Trace	X-Axis	Value	Notes
1	S12	46.9010 GHz	-50.00 dB	