

## 32 GHz Diplexer in Metal Insert Technology

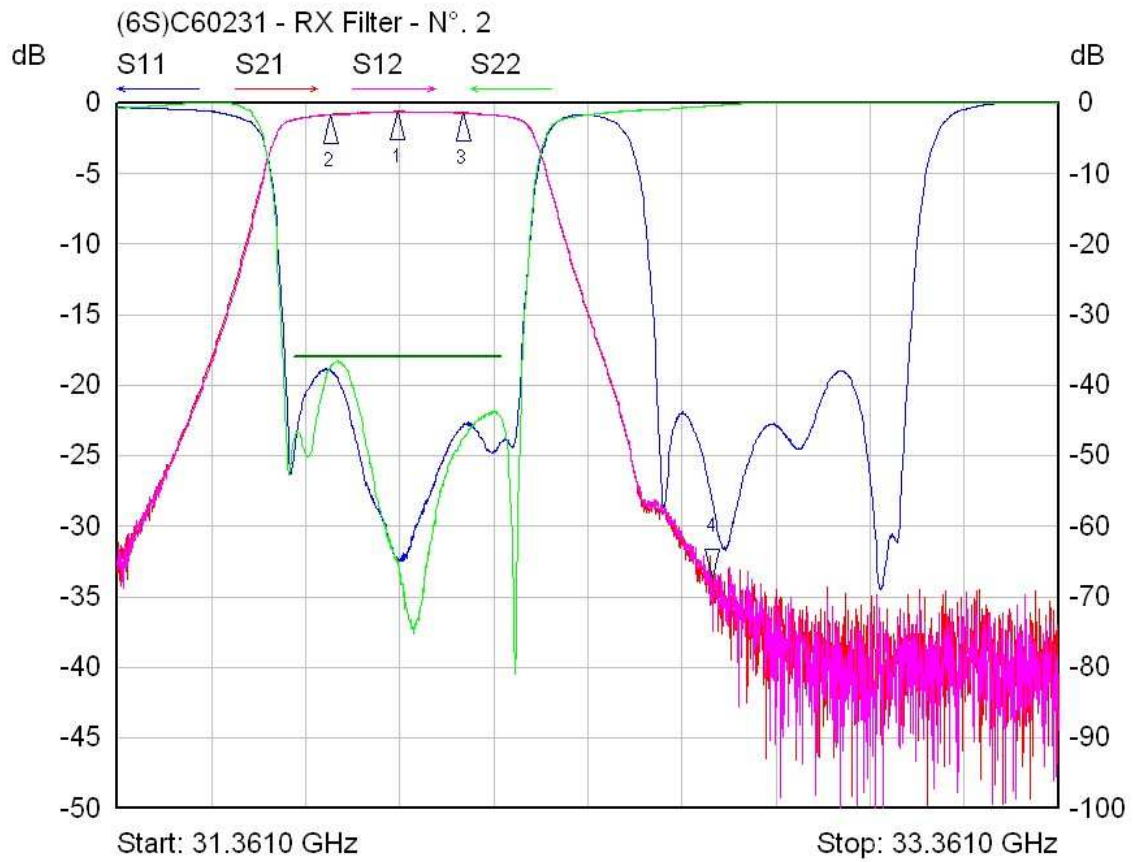


### Main Electrical & Mechanical Characteristics

Frequency Range	31.5 – 33 GHz
Bandwidth	440 MHz
Diplexer Space	812 MHz
Attenuation TX-RX	> 65 dB
Insertion Loss	< 1.6 dB
Return Loss	> 18 dB
Dimensions	200 x 34 x 26.3 mm
Connectors	WR28 (R320) Special Flanges on all Ports.

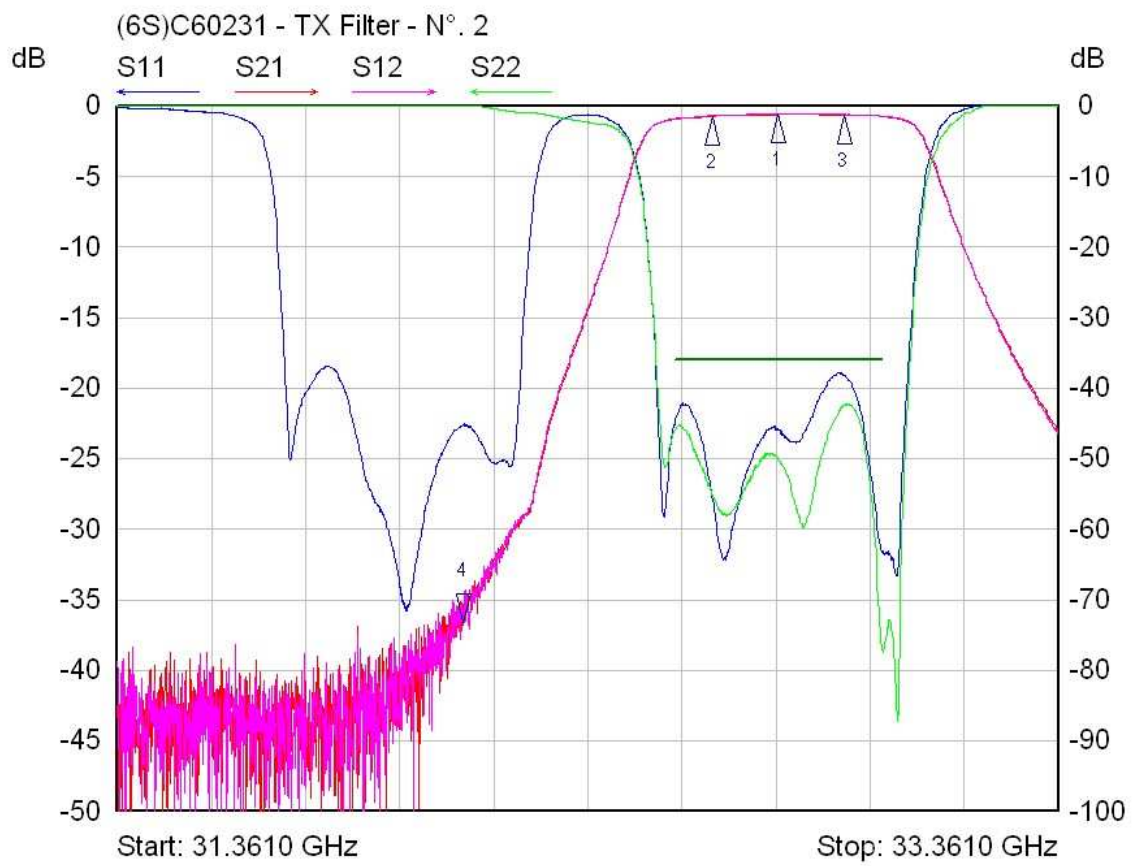
# Measured Frequency Response

Low Filter



Mkr	Trace	X-Axis	Value	Notes
1 ▾	S21	31.9550 GHz	-1.23 dB	
2 ▾	S21	31.8150 GHz	-1.61 dB	
3 ▾	S21	32.0950 GHz	-1.35 dB	
4 ▾	S21	32.6270 GHz	-67.40 dB	

# High Filter



Mkr	Trace	X-Axis	Value	Notes
1 ▾	S21	32.7670 GHz	-1.24 dB	
2 ▾	S21	32.6270 GHz	-1.43 dB	
3 ▾	S21	32.9070 GHz	-1.32 dB	
4 ▾	S21	32.0950 GHz	-73.10 dB	