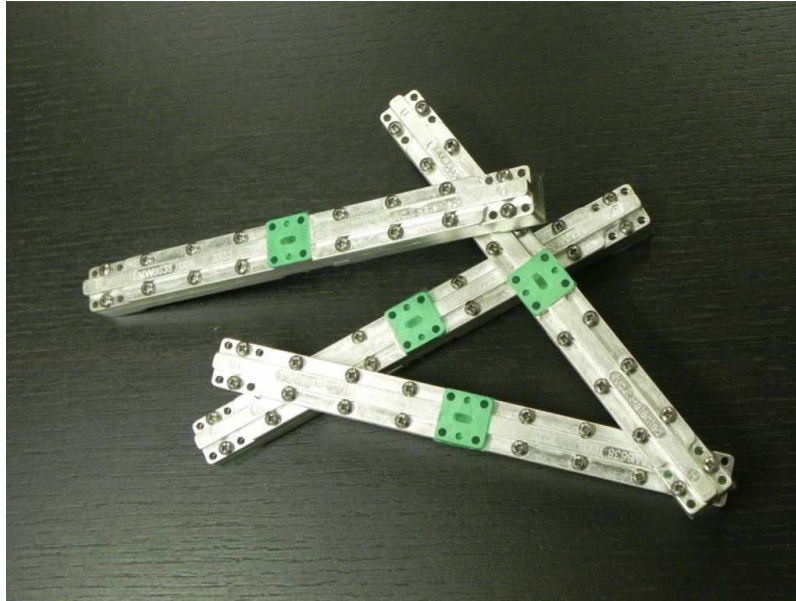


## 28 GHz Metal Insert Diplexer

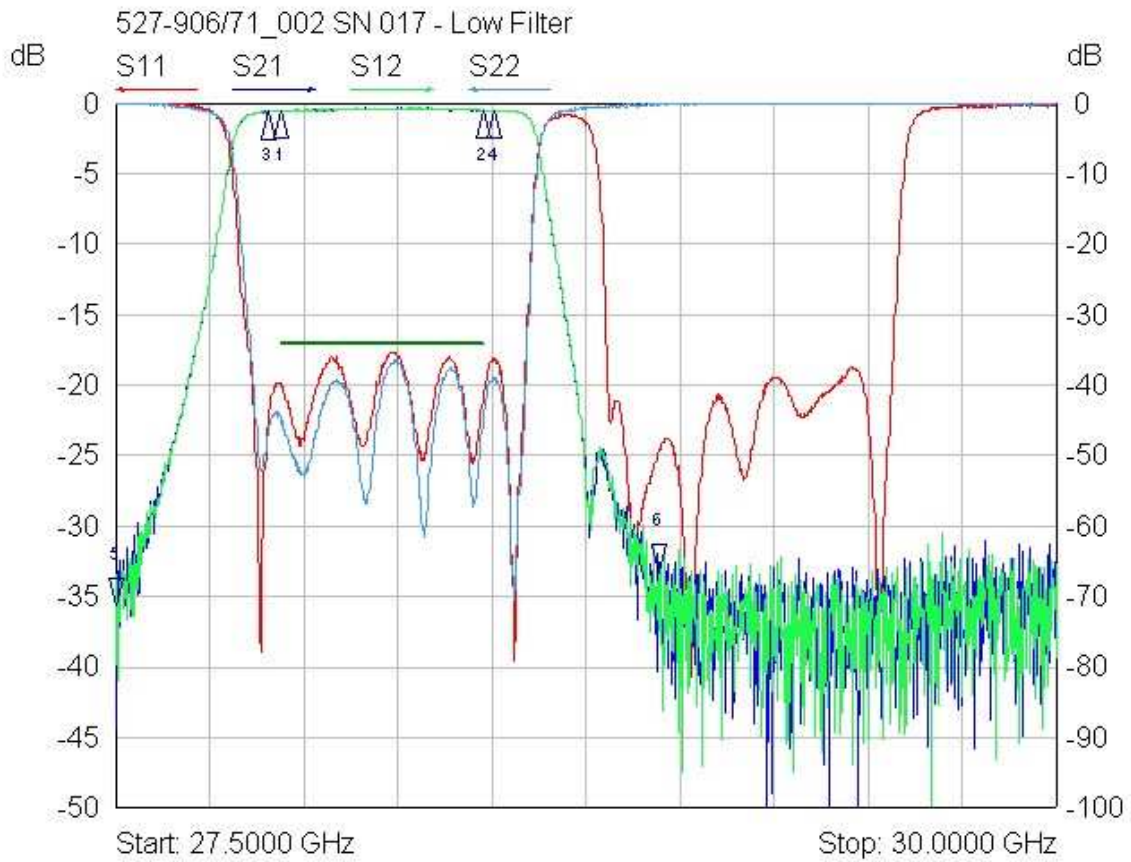


### Main ELECTRICAL AND MECHANICAL CHARACTERISTICS

Frequency Range	27.5 – 29.5 GHz
Net Bandwidths	540 MHz
Diplexer Space	1008 MHz
Isolation TX-RX	> 55 dB
Insertion Loss	< 1.4 dB
Return Loss	> 17 dB
Temperature Range	- 40 ÷ + 85 °C
Dimensions	197 x 19 x 18 mm
Connectors	UBR320 Flanges

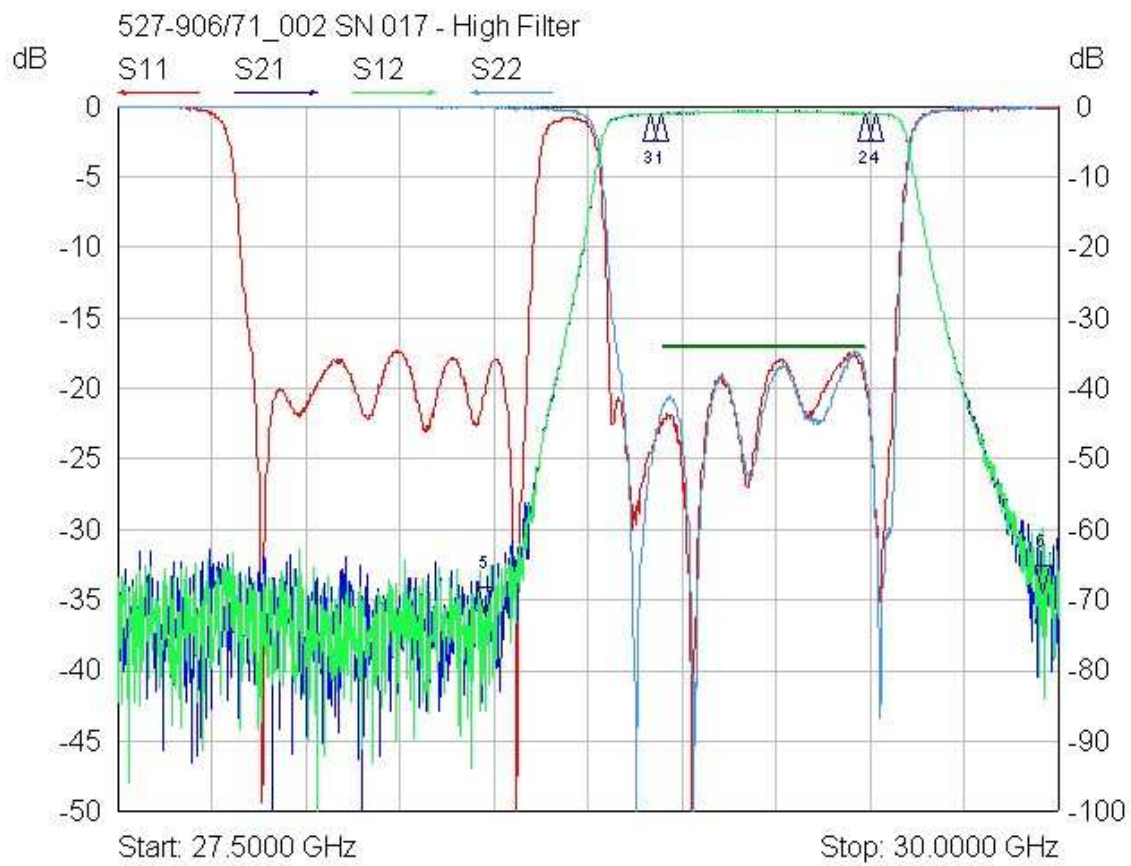
# Measured Frequency Response

## Low Filter



Mkr	Trace	X-Axis	Value	Notes
1 ▾	S21	27.9380 GHz	-1.02 dB	
2 ▾	S21	28.4780 GHz	-0.93 dB	
3 ▾	S21	27.9080 GHz	-1.17 dB	
4 ▾	S21	28.5080 GHz	-1.04 dB	
5 ▾	S21	27.5000 GHz	-71.39 dB	
6 ▾	S21	28.9460 GHz	-66.63 dB	

## High Filter



Mkr	Trace	X-Axis	Value	Notes
1	S21	28.9460 GHz	-1.00 dB	
2	S21	29.4860 GHz	-0.99 dB	
3	S21	28.9160 GHz	-1.03 dB	
4	S21	29.5160 GHz	-1.01 dB	
5	S21	28.4780 GHz	-72.09 dB	
6	S21	29.9540 GHz	-69.10 dB	