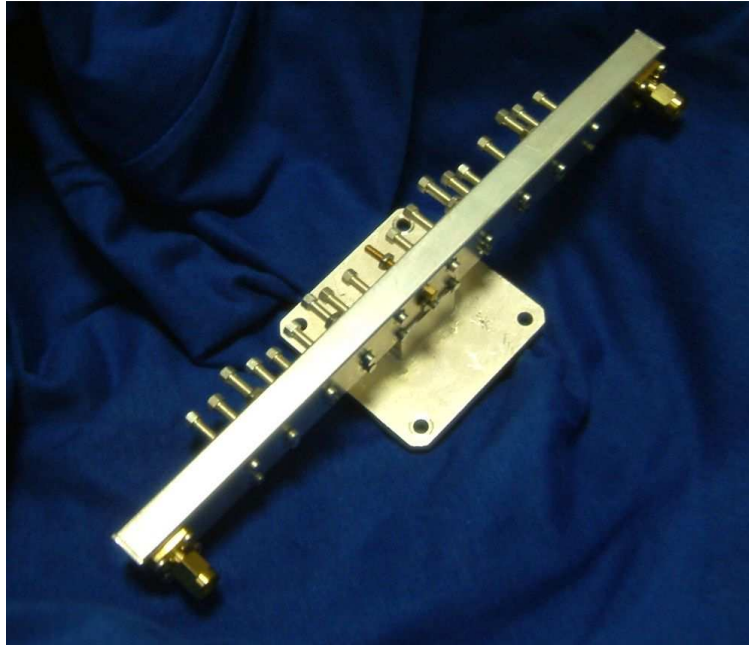


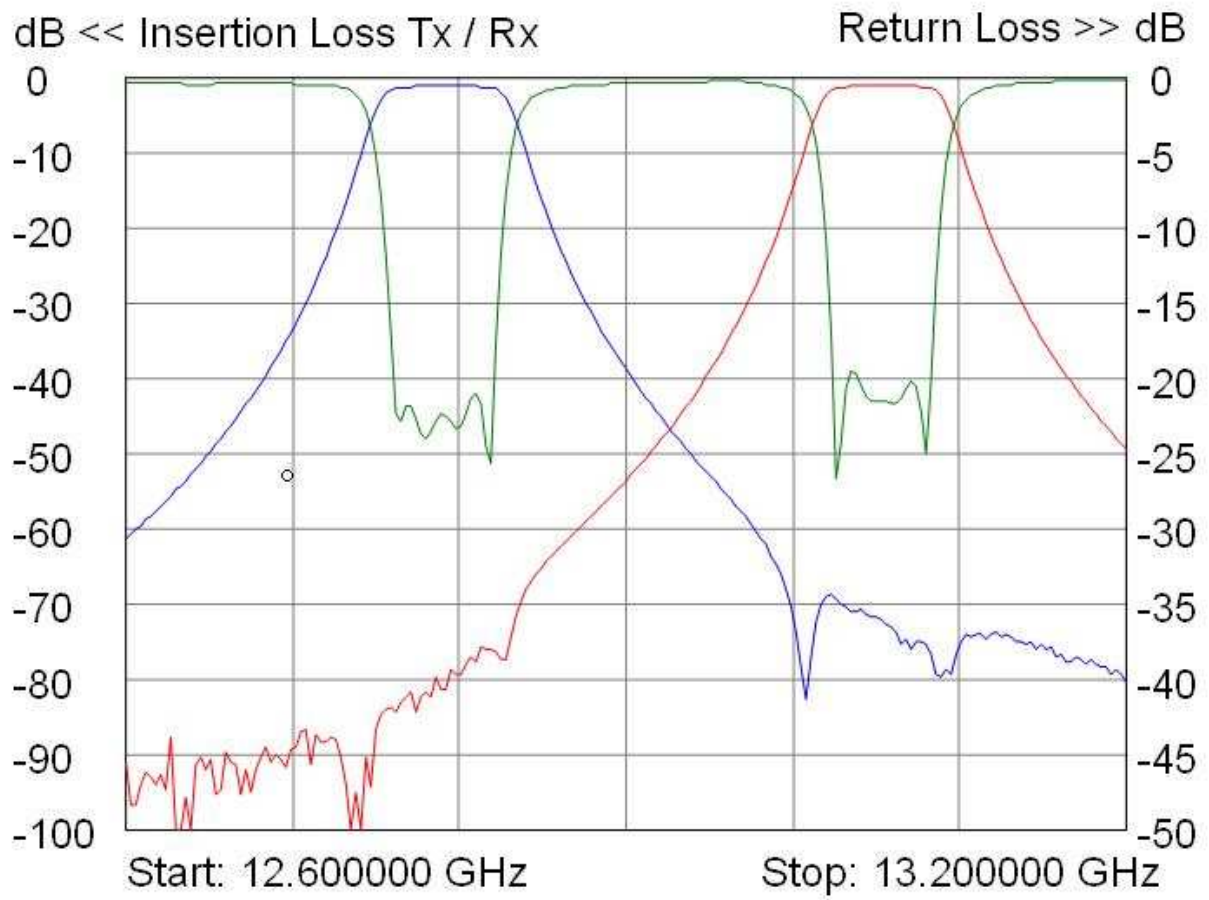
## 13 GHz Diplexer



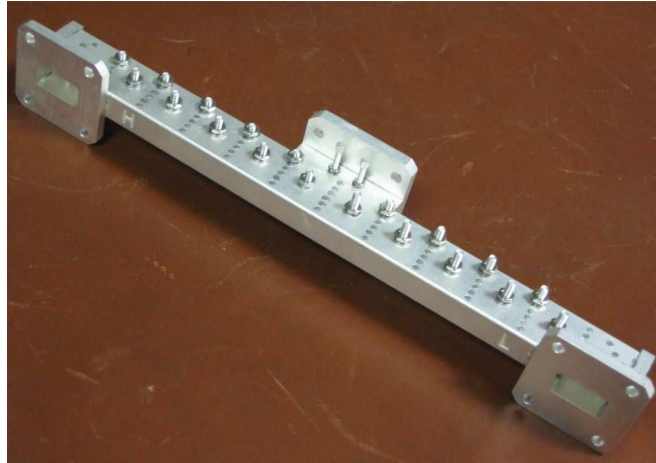
### Main Electrical & Mechanical Characteristics

Frequency Range	12.7 – 13.3 GHz
Bandwidth	28 MHz
Diplexer Space	266 MHz
Isolation TX-RX	> 60 dB
Insertion Loss	< 1.5 dB
Return Loss	> 18 dB
Temperature Range	- 35 ÷ + 65 °C
Dimensions	200 x 55 x 39 mm
Connectors	Antenna: Flange WR75 or SMA-F or N-F TX & RX Filters: 2 SMA-F or 2 N-F

## Measured Frequency Response



## 13 GHz Diplexer

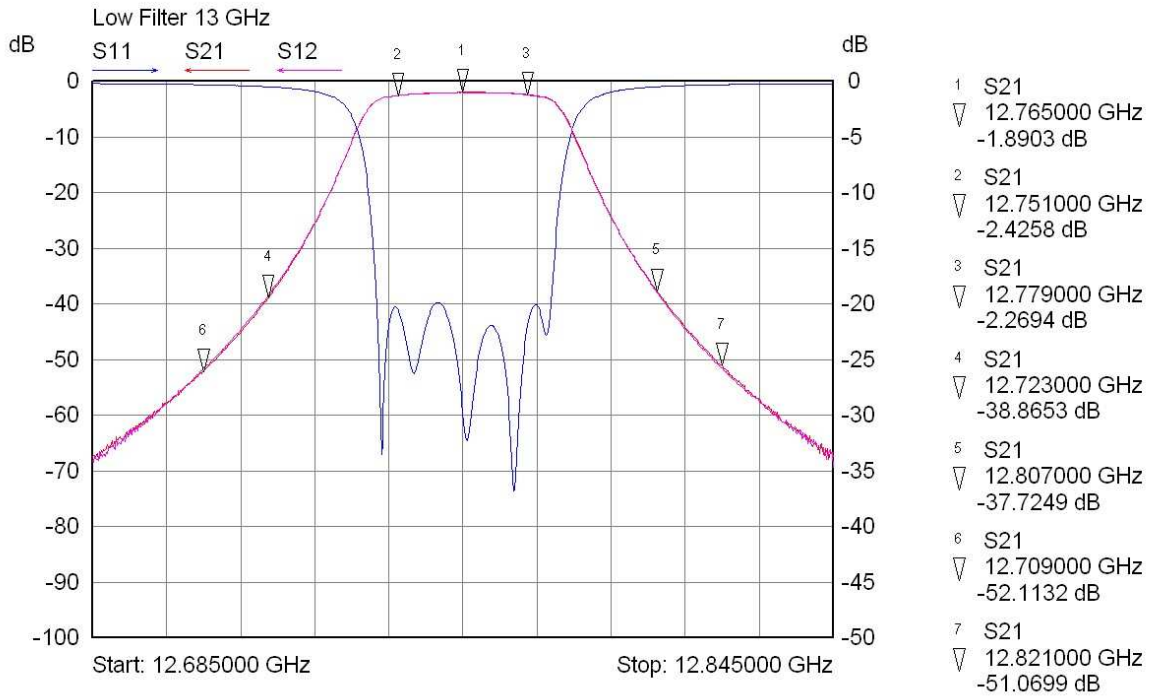


### Main Electrical & Mechanical Characteristics

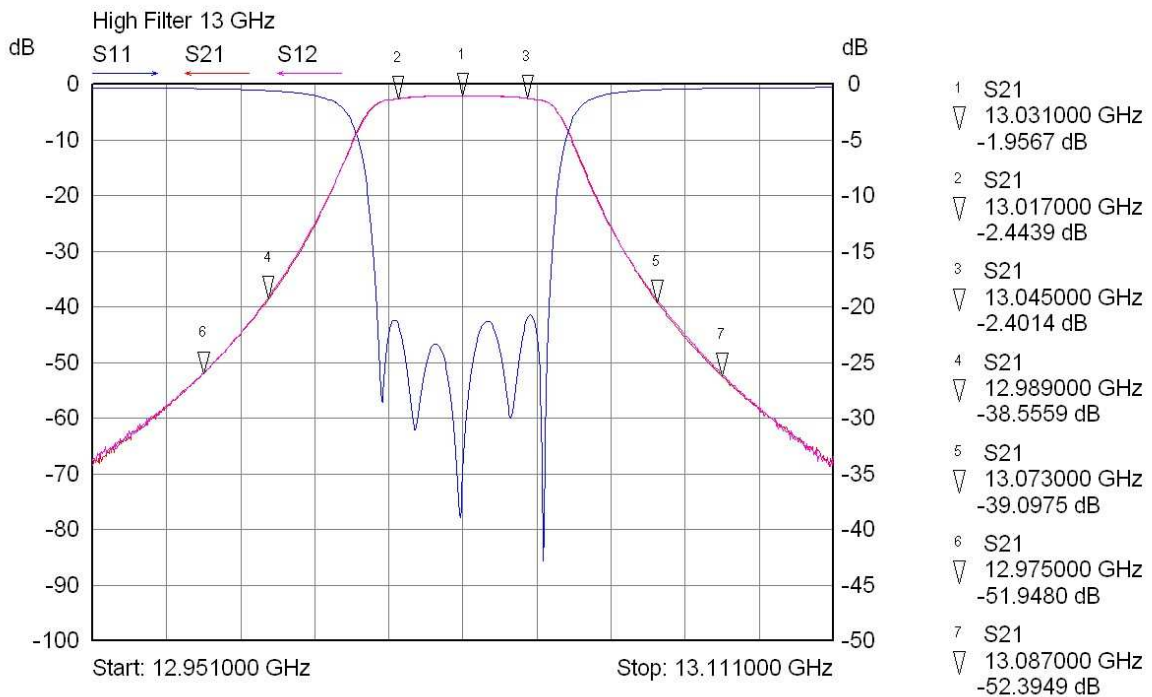
Frequency Range	12.7 – 13.2 GHz
Bandwidth	28 MHz or 52 MHz version
Diplexer Space	266 MHz
Isolation TX-RX	> 70 dB
Insertion Loss	< 2.0 dB at f <sub>0</sub>
Return Loss	> 20 dB
Temperature Range	- 33 ÷ + 65 °C
Dimensions	250 x 40 x 39 mm
Connectors	3 UBR120 Flanges

# Measured Frequency Response

## Low Filter



## High Filter



## 13 GHz Diplexer

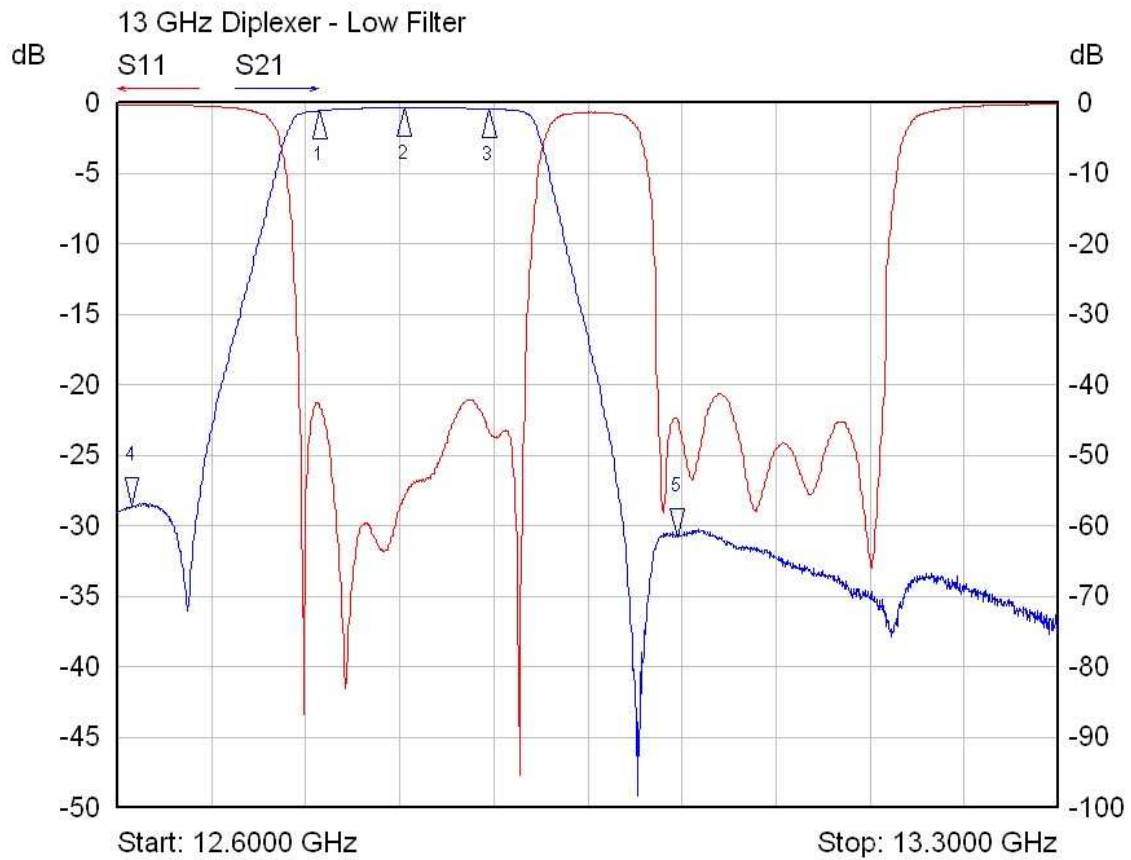


### Main Electrical & Mechanical Characteristics

Frequency Range	12.7 – 13.2 GHz
Net Bandwidth	126 MHz
Diplexer Space	266 MHz
Isolation TX-RX	> 55 dB
Insertion Loss	< 1.6 dB
Return Loss	> 20 dB
Temperature Range	- 33 ÷ + 70 °C
Dimensions	247 x 80 x 27 mm
Connectors	UBR120 on all Ports

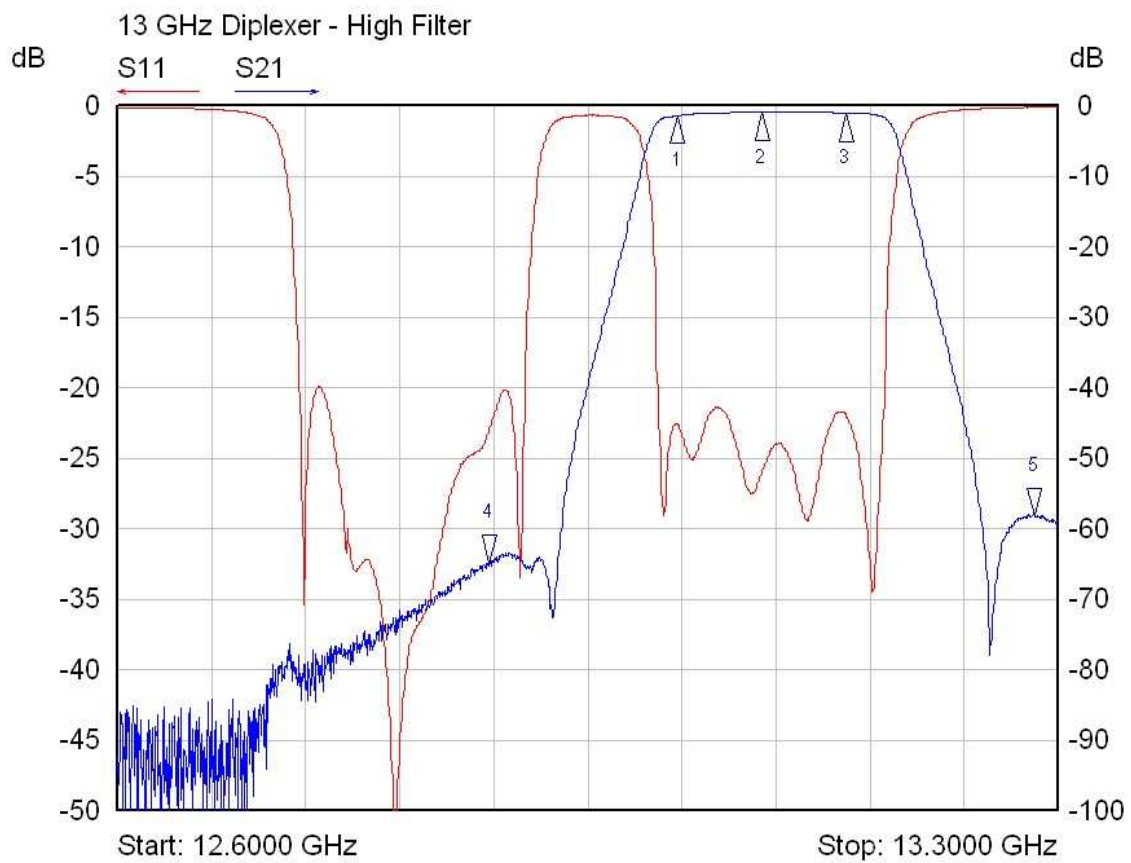
# Measured Frequency Response

Low Filter



Mkr	Trace	X-Axis	Value	Notes
1 ▾	S21	12.7510 GHz	-1.05 dB	
2 ▾	S21	12.8140 GHz	-0.68 dB	
3 ▾	S21	12.8770 GHz	-0.81 dB	
4 ▾	S21	12.6110 GHz	-57.15 dB	
5 ▾	S21	13.0170 GHz	-61.41 dB	

# High Filter



Mkr	Trace	X-Axis	Value	Notes
1 ▽	S21	13.0170 GHz	-1.31 dB	
2 ▽	S21	13.0800 GHz	-0.82 dB	
3 ▽	S21	13.1430 GHz	-0.98 dB	
4 ▽	S21	12.8770 GHz	-64.80 dB	
5 ▽	S21	13.2830 GHz	-58.17 dB	