

Microwavefilters® &

Microwave components for telecommunication systems

V-Band Diplexer



**Metal Insert
Technology (No Tuning)**

**BW 500 MHz Shifter 1.3 GHz
Isolation > 60dB**

RL > 14 dB, IL < 1.6 dB

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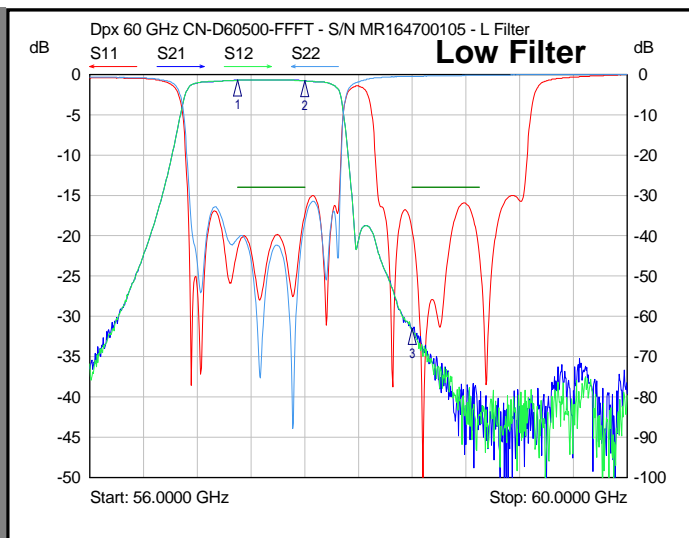
This diplexer works in the emerging frequency range of **V-band** (50 – 75 GHz). It was designed for **radio links applications** and optimized to offer a **very low insertion loss** (< 1.6 dB typical) in both the high and low band. It has a **high isolation TX-RX** (>60 dB).
It's fabricated in metal-insert technology, with no tuning required.

V-Band Diplexer Characteristics

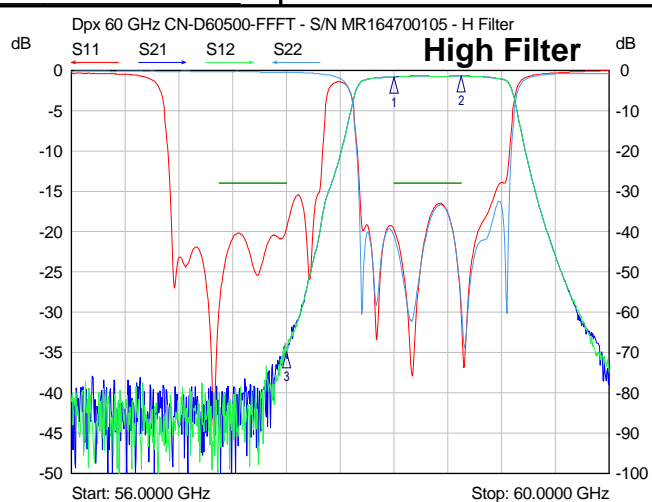
P/N MW-D60500-FFFT

Low Filter Bandwidth
High Filter Bandwidth
Return Loss
Insertion Loss
TX/RX Isolation
Temperature Range
Dimensions
Connectors (on all Ports)

57.1-57.6 GHz
58.4-58.9 GHz
> 14 dB (16 dB typical)
< 2.1 dB (1.6 dB typical)
> 60 dB
-40 ÷ +85 °C
110 x 34 x 11.8 mm
Flanges WG25 R620 WR15



Mkr	Trace	X-Axis	Value
1	S21	57.1000 GHz	-1.40 dB
2	S21	57.6000 GHz	-1.54 dB
3	S21	58.4000 GHz	-63.07 dB



Mkr	Trace	X-Axis	Value	Notes
1	S21	58.4000 GHz	-1.61 dB	
2	S21	58.9000 GHz	-1.37 dB	
3	S21	57.6000 GHz	-69.78 dB	