

Microwavefilters® & ®

Microwave components for telecommunication systems

E-Band Diplexer



**In Metal Insert
Technology (No Tuning)**

**BW 5 GHz Shifter 10 GHz
Isolation > 60dB**

RL > 14 dB, IL < 1.2 dB

Microwavefilters & TVC srl

Via G. Cavalcanti, 10 - 20063 Cernusco s/N (MI) - ITALY
Tel. +39-02-92162703 Fax. +39-02-92162705

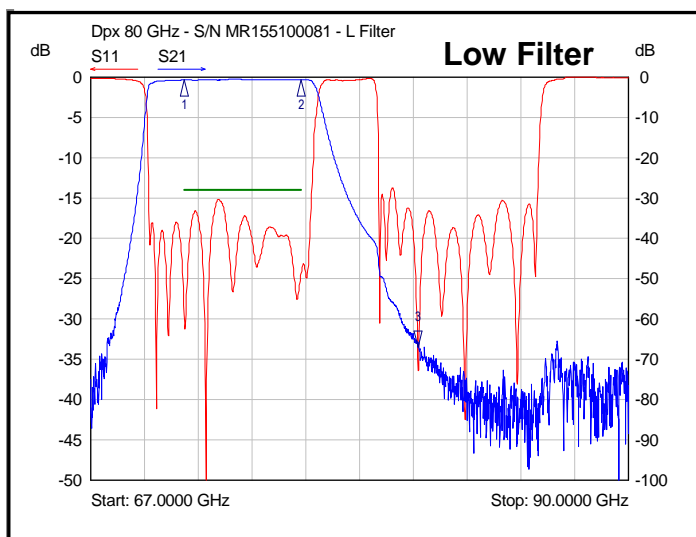
info@mw-tvc.com www.mw-tvc.com

This diplexer works in the emerging frequency range of **E-band** (60 – 90 GHz). It was designed for **radio links applications** and optimized to offer a **very low insertion loss** (< 0.7 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.

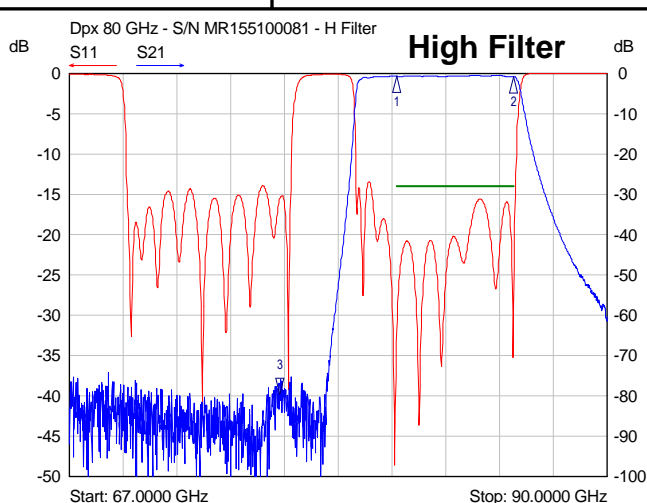
E-Band Diplexer Characteristics

P/N MW-D78500AFFT

Low Filter Bandwidth	71-76 GHz
High Filter Bandwidth	81-86 GHz
Return Loss	> 14 dB
Insertion Loss	< 1.2 dB (0.7 dB typ.)
TX/RX Isolation	> 60 dB
Temperature Range	-40 ÷ +85 °C
Dimensions	110 x 34 x 11.8 mm
Connectors (on all Ports)	Flanges WG26 R740 WR12



Mkr	Trace	X-Axis	Value
1 ▾	S21	71.0000 GHz	-0.68 dB
2 ▾	S21	76.0000 GHz	-0.63 dB
3 ▾	S21	81.0000 GHz	-67.10 dB



Mkr	Trace	X-Axis	Value	Notes
1 ▾	S21	81.0000 GHz	-0.75 dB	
2 ▾	S21	86.0000 GHz	-0.79 dB	
3 ▾	S21	76.0000 GHz	-79.61 dB	