

New E-Band Diplexer...



... Focused on 5G

In Metal Insert (No Tuning)

Isolation ≥ 60 dB, IL ≤ 1.0 dB

With BSFs for improved
selectivity

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Microwave components for telecommunication systems

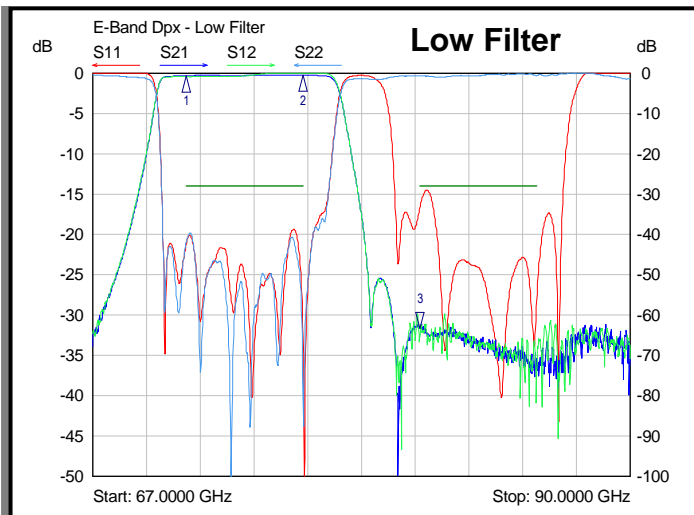
This diplexer works in the **E-band** frequency range (60 ÷ 90 GHz). It includes two bandstop filters (or notches), one in the low filter and one in the high filter, to improve selectivity and to reduce the number of resonators and, consequently, the insertion loss, which is now typically 0.6 dB. Thanks to the improved RL & IL, this diplexer sustain a higher power output It's fabricated in metal-insert technology, with no tuning required.

E-Band Diplexer Characteristics

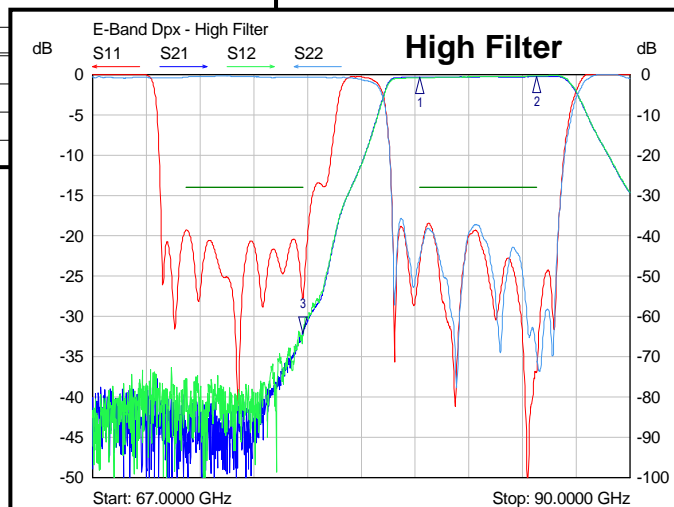
P/N MWD78500-FFFT

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

71-76 GHz
81-86 GHz
≥ 14 dB (16 dB typ.)
≤ 1.0 dB (0.6 dB typ.)
≥ 60 dB
-40 ÷ +85 °C
80 x 24 x 9 mm
Flanges WG26 R740 WR12



Mkr	Trace	X-Axis	Value
1	S21	71.0000 GHz	-0.63 dB
2	S21	76.0000 GHz	-0.48 dB
3	S21	81.0000 GHz	-63.31 dB



Mkr	Trace	X-Axis	Value	Notes
1	S21	81.0000 GHz	-0.61 dB	
2	S21	86.0000 GHz	-0.53 dB	
3	S21	76.0000 GHz	-64.13 dB	