



# MFC

Microwave Filter Company, Inc.

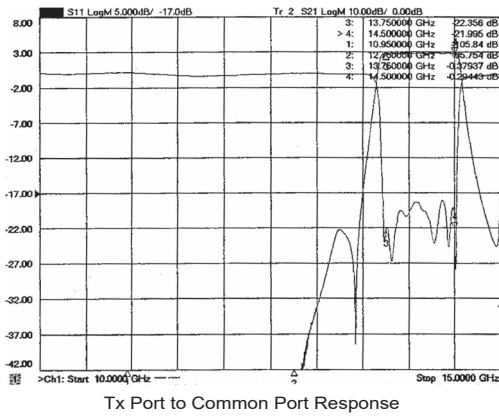
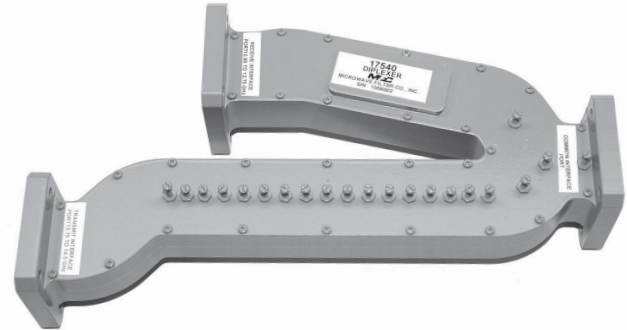
Creating Filters and Components to 50 Ghz for Over 50 Years!

Super-Extended Ku-Band Diplexer

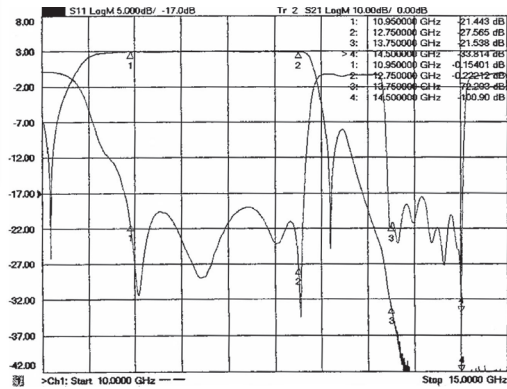
Model 17540

This TX/RX diplexer incorporates highly-selective bandpass filter components to achieve *outstanding isolation* between uplink & downlink feeds in the wider, *super-extended Ku-band*.

- *Compact Size - Ideal for use in confined spaces.*
- *Also compatible with standard or extended Ku-band applications.*
- *Extremely low TX and RX signal loss.*
- *Other flange configurations are available upon request.*



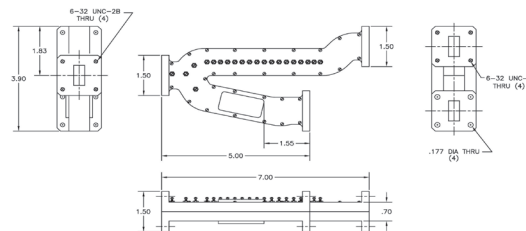
Tx Port to Common Port Response



Rx Port to Common Port Response

### Specifications:

<b>Highband (Tx Port):</b>	13.75 - 14.5 GHz ( <b>Uplink</b> )
Insertion Loss:	0.4 dB Max from 13.75 - 14.5 GHz
Return Loss:	17 dB Typ from 13.75 - 14.5 GHz
Rejection:	100 dB Min / 55 dB Min from 10.95 - 12.75 GHz
<b>Power Rating (CW):</b>	<b>30 Watts Max</b>
<b>Lowband (Rx Port):</b>	10.95 - 12.75 GHz ( <b>Downlink</b> )
Insertion Loss:	0.3 dB Max from 10.95 - 12.75 GHz
Return Loss:	17 dB Typ from 10.95 - 12.75 GHz
Rejection:	70 dB Min from 13.75 - 14.5 GHz
Flanges:	WR75 Cover
Weight:	0.7 lbs (0.32 Kg)
Dimensions:	7" x 3.9" x 1.5" (178mm x 99mm x 38mm)



All MFC Products Designed and Manufactured in the USA



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