



ANATECH MICROWAVE COMPANY

Manufacturer & Supplier of RF & MW Filters



3.5 GHz Duplexer

Part Number: AD3318-3394D244

Antenna to Receive Specifications:

Rx Center Frequency (RxFc): 3318 MHz

Passband Bandwidth: 12 MHz (minimum)

Insertion Loss: < 1.0 dB

Ripple: Total passband amplitude variation including ripple, roll-off and slope should be less than 0.5 dB over 12 MHz BW.

Return Loss: >15 dB

Group Delay Variation: < 60 ns across any 1.75 MHz within the operating band.

Minimum Attenuation Required

Freq (MHz)	Atten (dB)
< 2500:	40
(RxFc ± 6) - 121	35
(RxFc ± 6) - 484:	50
(RxFc ± 6) + 76:	50
> 4 GHz & < 10.5 GHz:	40

Transmit to Antenna Specifications:

Tx Center Frequency (TxFc): 3394 MHz

Passband Bandwidth: 12 MHz (minimum)

Insertion Loss: <1.5 dB

Ripple: Total passband amplitude variation including ripple, roll-off and slope should be less than 0.5 dB over 12 MHz BW.

Return Loss: >15 dB

Group Delay Variation: < 60 ns across any 1.75 MHz within the operating band.

Minimum Attenuation Required

Freq (MHz)	Atten (dB)
< 2500:	40
< TxFc -18 & > TxFc +18 at 25 °C:	15
< TxFc -23 & > TxFc +23:	15
(TxFc -/+ 6) - 240:	50
(TxFc -/+ 6) - 480:	50
(TxFc -/+ 6) - 76:	80
> 4GHz & < 18 GHz:	40

