



ANATECH MICROWAVE COMPANY

Manufacturer & Supplier of RF & MW Filters



3.5 GHz Duplexer

Part Number: AD3487-3587D242

Antenna to Receive Specifications:

Rx Center Frequency (RxFc):3487.5 MHz

Passband Bandwidth: 25 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 the passband

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 ± 12.5) - 121 | 35 |
| (RxFc ± 12.5) - 484: | 50 |
| (RxFc ± 12.5) +100: | 50 |
| > 4 GHz & < 10.5 GHz: | 40 |

Transmit to Antenna Specifications:

Tx Center Frequency (TxFc): 3587.5 MHz

Passband Bandwidth: 25 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 the passband.

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 -23 & > TxFc +23 at 25 °C: | 15 |
| < TxFc -28 & > TxFc +28: | 15 |
| (TxFc +/- 12.5) - 240: | 50 |
| (TxFc +/- 12.5) - 480: | 50 |
| (TxFc +/- 12.5) - 100: | 80 |
| > 4GHz & < 18 GHz: | 40 |

