

WR-22 WIDEBAND DIPLEXER

for Satcom Applications



KEY FEATURES

Low-Side Passband (Downlink / Receive Band)

- Frequency: 37.5 GHz to 42.5 GHz
- Insertion Loss: 1.2 dB typical
- Rejection (to High-Side Band): 60 dBc typical

High-Side Passband (Uplink / Transmit Band)

- Frequency: 47 GHz to 52 GHz
- Insertion Loss: 1.2 dB typical
- Rejection (to Low-Side Band): 60 dBc typical

Why it matters for Satcom

- Cleaner TX/RX separation for improved polarization/channel integrity
- Wideband coverage for high-throughput Satcom architectures
- Low loss to preserve system noise figure and EIRP
- Strong rejection to minimize self-interference and spurious coupling

Built for high-performance Satcom front ends, our WR-22 Wideband Diplexer cleanly separates and combines uplink and downlink bands with excellent in-band efficiency and strong out-of-band suppression.

Covering two wide mmWave channels in a compact waveguide implementation, it enables simpler RF architectures, improved isolation between transmit and receive paths, and reduced system loss—ideal for modern gateway, payload, and ground terminal designs.

With 1.2 dB typical insertion loss in both bands and 60 dBc typical rejection to suppress unwanted energy and prevent leakage between channels, this diplexer supports clean spectral performance and stable link integrity across wide bandwidths.

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