



# WR-34

## WIDEBAND OMT

for Satcom Applications

### KEY FEATURES

- **Frequency Range:** 18.5 GHz to 31 GHz across the full WR-34 band
- **Low Insertion Loss:** 0.65 dB typical across the operating band
- **High Isolation:** 40 dB typical port-to-port isolation
- **Wideband Performance:** Designed for broadband Satcom applications
- **Dual-Polarization:** Optimized for microwave and millimeter-wave systems
- **Precision Waveguide Design:** Engineered for stable RF performance across the band
- **Compact Integration:** Suitable for antenna feed systems and RF front-end assemblies
- **High Reliability Construction:** Built for demanding microwave and millimeter-wave environments

Designed for next-generation satellite communication systems, our WR-34 Wideband Orthomode Transducer (OMT) delivers outstanding RF performance across the 18.5 GHz to 31 GHz frequency range. Engineered for demanding wideband Satcom payloads, gateways, and ground terminals, this OMT combines broadband operation, low insertion loss, and high port-to-port isolation in a compact, high-performance waveguide solution.

With a typical insertion loss of just 0.65 dB across the band, the WR-34 Wideband OMT helps preserve system gain and improve overall link efficiency. Its typical isolation of 40 dB ensures excellent polarization discrimination and minimizes cross-coupling, making it ideal for high-capacity, dual-polarized communication architectures.

Built for reliable operation in advanced microwave and millimeter-wave systems, this OMT is well suited for Satcom front ends, transceiver chains, payload subsystems, and high-frequency test applications where performance and bandwidth are critical.

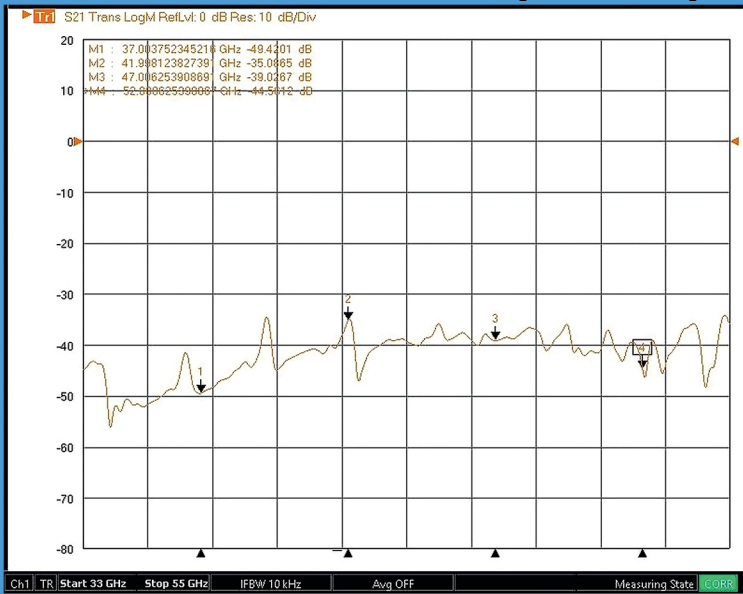


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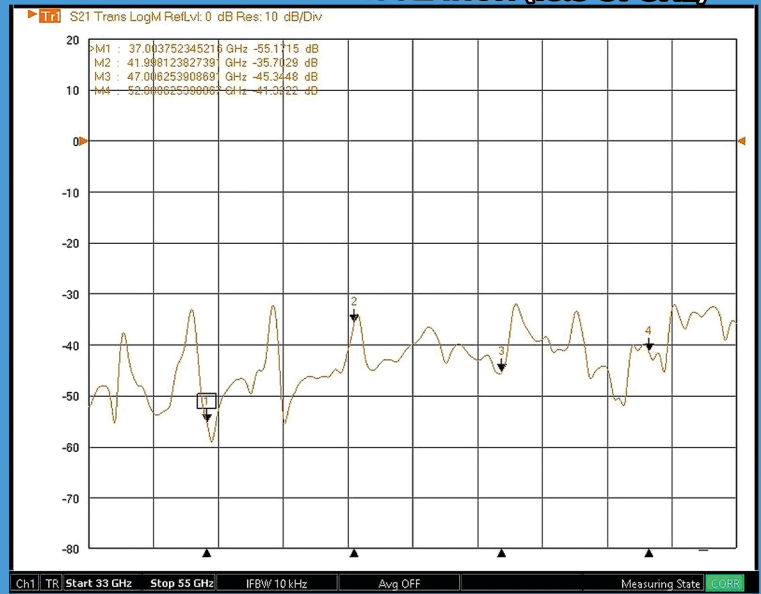


## DATA PLOTS

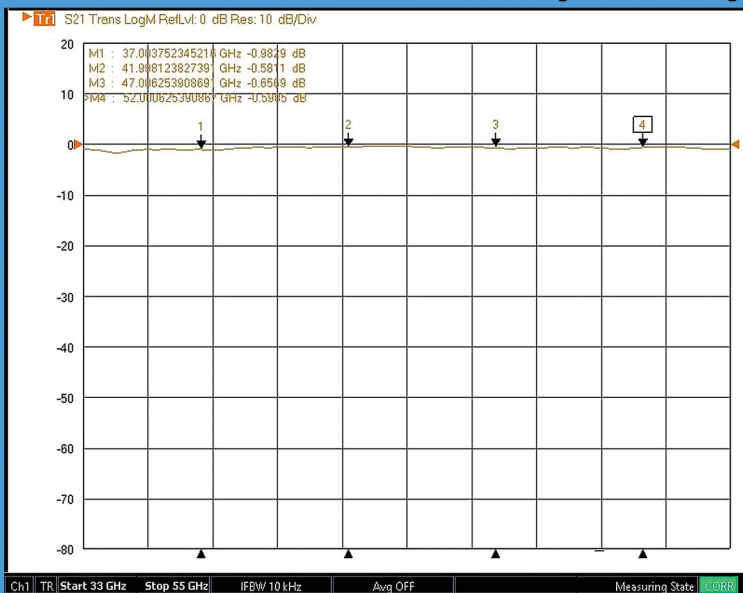
### WR-34 OMT E-PLANE ISOLATION (18.5-31 GHz)



### WR-34 OMT H-PLANE ISOLATION (18.5-31 GHz)



### WR-34 OMT E-PLANE INSERTION LOSS (18.5-31 GHz)



### WR-34 OMT H-PLANE INSERTION LOSS (18.5-31 GHz)

