Abstracts

E-Plane W-Band Printed-Circuit Balanced Mixer (Short Papers)

P.J. Meier. "E-Plane W-Band Printed-Circuit Balanced Mixer (Short Papers)." 1983 Transactions on Microwave Theory and Techniques 31.2 (Feb. 1983 [T-MTT] (Special Issue on Millimeter-Waves)): 227-230.

A balanced W-band mixer has been developed which integrates a low-loss printed-probe hybrid with fin-line diode mounts on a single substrate. This E-plane approach features production economy, effective shielding, high (> 400) unloaded Q, light dielectric loading, and simple waveguide interfaces. With the LO fixed at 95 GHz, the measured conversion loss of the mixer is 7.8±0.7 dB across the RF band of 92-98 GHz.

❑ Return to main document.