

Abstracts

W-Band finite ground coplanar waveguide (FGGPW) to microstrip line transition

G.P. Gauthier, L.P. Katehi and G.M. Rebeiz. "W-Band finite ground coplanar waveguide (FGGPW) to microstrip line transition." 1998 MTT-S International Microwave Symposium Digest 98.1 (1998 Vol. I [MWSYM]): 107-109.

A uniplanar transition from finite ground coplanar waveguide (FGCPW) to microstrip line operating at W-Band has been developed. The design is uniplanar and does not require viaholes or wirebonds. The transition, centered at 94 GHz, results in 0.2 dB insertion loss with a bandwidth of 20%. The return loss is better than -17 dB from 85 GHz to 100 GHz. To our knowledge, this simple transition shows state-of-the-art performance, and can be very useful for CPW-probe to microstrip circuit measurements.

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