Abstracts

A millimeter-wave perpendicular coax-to-microstrip transition

M. Morgan and S. Weinreb. "A millimeter-wave perpendicular coax-to-microstrip transition." 2002 MTT-S International Microwave Symposium Digest 02.2 (2002 Vol. II [MWSYM]): 817-820 vol.2.

A novel transition from coaxial cable to microstrip is presented in which the coax connector is perpendicular to the substrate of the printed circuit. Such a right-angle transition has practical advantages over more common end-launch geometries in some situations. The design is compact, easy to fabricate, and provides repeatable performance of better than 14 dB return loss and 0.4 dB insertion loss from DC to 40 GHz.

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