

# Abstracts

## Full band waveguide-to-microstrip probe transitions

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Yoke-Choy Leong and S. Weinreb. "Full band waveguide-to-microstrip probe transitions." 1999 MTT-S International Microwave Symposium Digest 99.4 (1999 Vol. IV [MWSYM]): 1435-1438 vol.4.

Design data in the form of dimension tables is presented for probe transitions for microstrip substrates with 4 dielectric constants (2.2, 6.0, 10.1, and 13) in two orientations relative to the waveguide (broadside and longitudinal). These dimensions have been optimized for full waveguide bandwidth with >20 dB return loss using an electromagnetic CAD procedure. The dimensions can be applied to any size waveguide with a 2:1 width/height aspect ratio. Experimental verification for two of the designs applied to a W-band waveguide is presented.

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