

# Abstracts

## Designing commercially viable MM-wave modules

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*N. Jain. "Designing commercially viable MM-wave modules." 2000 MTT-S International Microwave Symposium Digest 00.1 (2000 Vol. 1 [MWSYM]): 565-568.*

Millimeter-wave module manufacturing has become a commercial reality but many challenges related to cost still remain. A practical integration methodology that uses a novel wide-band microstrip-to-rectangular waveguide transition at 77 GHz is presented. EM based tolerance analysis shows that deleterious resonance can cause significant signal degradation. Accurate EM simulations and re-sampling techniques are useful for improved design and cost reduction.

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