

# Abstracts

## Circular-to-rectangular waveguide diplexers

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*T. Shen, K.A. Zaki and T.G. Dolan. "Circular-to-rectangular waveguide diplexers." 2001 MTT-S International Microwave Symposium Digest 01.2 (2001 Vol. II [MWSYM]): 1325-1328 vol.2.*

Design of circular-to-rectangular waveguide diplexers with circular waveguide as common port is presented. A ridged circular-to-rectangular waveguide T-junction is proposed as diplexing manifold. Full-wave optimization is used in the diplexer design. A Ka-band H-plane circular-to-rectangular waveguide diplexer is designed. Measured results are in good agreement with computed results.

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