

# Abstracts

## **W-band measurements of 100 /spl mu/m height micro-machined air-filled rectangular waveguides**

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*C.E. Collins, J.W. Digby, R.D. Pollard, R.E. Miles, G.M. Parkhurst, J.M. Chamberlain, D.P. Steenson, N.J. Cronin, L.S. Karatzas and J.W. Bowen. "W-band measurements of 100 /spl mu/m height micro-machined air-filled rectangular waveguides." 1997 MTT-S International Microwave Symposium Digest 3. (1997 Vol. III [MWSYM]): 1439-1442.*

The first S-parameter measurements of micro-machined 100 /spl mu/m high air-filled rectangular waveguides are reported, which have been performed at W-band using a specially designed test fixture connected to a standard vector network analyser. The results obtained show low loss and demonstrate propagation in TE/sub 10/ mode.

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