

Abstracts

Integrated micro-machined antenna for 200 GHz operation

J.W. Digby, C.E. Collins, B.M. Towlson, L.S. Karatzas, G.M. Parkhurst, J.M. Chamberlain, J.W. Bowen, R.D. Pollard, R.E. Miles, D.P. Steenson, D.A. Brown and N.J. Cronin. "Integrated micro-machined antenna for 200 GHz operation." 1997 MTT-S International Microwave Symposium Digest 2. (1997 Vol. II [MWSYM]): 561-564.

A new integrated micro-machined slotted horn antenna is reported which has been fabricated on a GaAs substrate. The far-field pattern has been simulated and measured showing good agreement, and the antenna has been used to successfully couple power in and out of a micro-machined rectangular waveguide.

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