Abstracts

A new micro-machined millimeter-wave and terahertz snap-together rectangular waveguide technology

C.E. Collins, R.E. Miles, J.W. Digby, G.M. Parkhurst, R.D. Pollard, J.M. Chamberlain, D.P. Steenson, N.J. Cronin, S.R. Davies and J.W. Bowen. "A new micro-machined millimeter-wave and terahertz snap-together rectangular waveguide technology." 1999 Microwave and Guided Wave Letters 9.2 (Feb. 1999 [MGWL]): 63-65.

A novel technique for micro-machining millimeter and submillimeter-wave rectangular waveguide components is reported. These are fabricated in two halves which simply snap together, utilizing locating pins and holes, and are physically robust, and cheap, and easy to manufacture. In addition, S-parameter measurements on these structures are reported for the first time and display lower loss than previously reported micro-machined rectangular waveguides.

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