

Abstracts

A New Design for 1-CM Rutile Traveling Wave Masers (Short Papers)

*J. Askne, S. Galt and E. Kollberg. "A New Design for 1-CM Rutile Traveling Wave Masers (Short Papers)." 1982 *Transactions on Microwave Theory and Techniques* 30.8 (Aug. 1982 [T-MTT]): 1252-1255.*

A new design of a rutile traveling wave maser is described. A dielectric rod waveguide is used as the interaction circuit. Essential mode coupling problems have been worked out in order to make the maser work properly. The advantage with this type of maser is the simplicity in the manufacturing and the very low insertion loss. A maser designed for the frequency range 26-29 GHz has been built, tested, and used in radio astronomical observations.

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