

Abstracts

X-Band Traveling Wave Maser (Correspondence)

S.M. Petty and R.C. Clauss. "X-Band Traveling Wave Maser (Correspondence)." 1968 Transactions on Microwave Theory and Techniques 16.1 (Jan. 1968 [T-MTT]): 47-48.

A traveling wave maser (TWM) has been constructed for use at 8448 MHz. It provides a net gain of 41.5 dB when installed in a closed-cycle helium refrigerator operating at 4.4°K. The maser provides more than 30 dB net gain over a tunable range of 140 MHz. An equivalent input noise temperature of approximately 18°K has been measured.

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