

Abstracts

A Stable Microwave Integrated Circuit X-Band Gunn Oscillator (Letters)

C.K. Chan and R.S. Cole. "A Stable Microwave Integrated Circuit X-Band Gunn Oscillator (Letters)." 1974 Transactions on Microwave Theory and Techniques 22.8 (Aug. 1974 [T-MTT]): 815-816.

A stable microwave integrated circuit (MIC) X-band Gunn oscillator is described. Frequency stability is achieved by use of a modified Pound stabilizing system. An average short-term frequency stability of 2×10^{-7} at room temperature and a thermal stability of $9 \times 10^{-7}/^{\circ}\text{C}$ between -15 and 30°C have been obtained.

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