

Abstracts

A Discriminator-Stabilized Microstrip Oscillator (Short Papers)

B. Glance and W.W. Snell, Jr.. "A Discriminator-Stabilized Microstrip Oscillator (Short Papers)." 1976 Transactions on Microwave Theory and Techniques 24.10 (Oct. 1976 [T-MTT]): 648-650.

A 5.2-GHz microstrip Gunn oscillator has been frequency stabilized by means of a novel microstrip discriminator and integrated feedback loop. A stabilization factor of 1000 was measured for the oscillator with an external Q of 50. The self-capture bandwidth of the discriminator circuit is large enough to eliminate the need for a search voltage to obtain initial frequency locking.

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