

Criterion for Nonreciprocal Injection Locking of Bilateral Microwave Oscillators (Correspondence)

B.S. Perlman and T.E. Walsh. "Criterion for Nonreciprocal Injection Locking of Bilateral Microwave Oscillators (Correspondence)." 1970 Transactions on Microwave Theory and Techniques 18.8 (Aug. 1970 [T-MTT]): 507-508.

A criterion is presented for establishing the required degree of isolation between injection-locked microwave oscillators to prevent reverse locking. In particular, the effect of circulator directivity and oscillator harmonics on the performance of the locking circuit is discussed. The injection-locked performance of pulsed and CW transferred electron oscillators is used as an example.

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