Abstracts

Injection Phase Locking of Two-Cavity Klystron Oscillators (Correspondence)

W.R. Day, Jr.. "Injection Phase Locking of Two-Cavity Klystron Oscillators (Correspondence)." 1963 Transactions on Microwave Theory and Techniques 11.5 (Sep. 1963 [T-MTT]): 436-436.

Injection phase locking of reflex klystron oscillators was recently reported by Mackey in these Transactions. Two-cavity-klystron oscillators may be phase locked in a similar manner. Injection locking affords a means of two-cavity oscillator stabilization that obviates the necessity for elaborate beam voltage and temperature control. Excellent frequency stability may be obtained by locking the two-cavity oscillator to a signal derived from either a crystal oscillator or a frequency standard. Fig. 1 shows a two-cavity oscillator injection locking system.

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