

Abstracts

Unconditionally Stable Tracking Discriminator at 35 GHz

B.N. Biswas, A.P. Sinha, P. Lahiri and D. Mondal. "Unconditionally Stable Tracking Discriminator at 35 GHz." 1993 Transactions on Microwave Theory and Techniques 41.3 (Mar. 1993 [T-MTT]): 388-394.

A two-mode tuning method for injection locked oscillators at microwave frequencies has been presented. This technique allows one to modify the frequency response characteristics and stability boundary of an injection locked oscillator (ILO) in a favorable direction. Using this idea, a lock-in microwave discriminator has been proposed. The stability properties, tracking zone and other characteristics of the discriminator are presented based on both a mathematical analysis and experimental results.

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