

Abstracts

Practical Aspects of the Injection-Locked Hybrid Discriminator

T. Chattopadhyay. "Practical Aspects of the Injection-Locked Hybrid Discriminator." 1987 Transactions on Microwave Theory and Techniques 35.2 (Feb. 1987 [T-MTT]): 195-200.

This paper analyzes the performance of an X-band (L-band) injection-locked hybrid discriminator taking into consideration such practical circuit effects as the presence of signal delay in different parts of the circuit, amplitude perturbation of the locked oscillator, and the reflection arising from a detector mismatch. Proposals are also made for the optimum design and the bandwidth extension of this tracking discriminator.

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