

Abstracts

Instabilities in Varactor Multipliers

D.B. Leeson. "Instabilities in Varactor Multipliers." 1966 G-MTT International Microwave Symposium Digest 66.1 (1966 [MWSYM]): 30-34.

Operating instability and spurious oscillations are principal factors preventing widespread success with varactor frequency multipliers. This paper outlines a theory of multiplier instability which relates universal characteristics of non-linear resonant circuits to the observed behavior of varactor multipliers and multiplier chains. Design criteria and test methods for stable multipliers are developed; their validity is supported by data on multipliers shown to be stable over wide variations in environment, drive level and load.

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