

Abstracts

Q Degradation in Varactor-Tuned Oscillators (Short Papers)

S.F. Paik. "Q Degradation in Varactor-Tuned Oscillators (Short Papers)." 1974 Transactions on Microwave Theory and Techniques 22.5 (May 1974 [T-MTT]): 578-579.

A general analysis of varactor-tuned negative-resistance oscillators is presented to show the varactor loading effect on the oscillator Q. The external Q of the varactor loaded circuit normalized with respect to the unperturbed external Q is plotted as a function of the tuning range for several values of the varactor Q and the capacitance ratio.

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