

Abstracts

A Note on Varactor Frequency Tripler (Correspondence)

C.L. Chao. "A Note on Varactor Frequency Tripler (Correspondence)." 1965 *Transactions on Microwave Theory and Techniques* 13.2 (Mar. 1965 [T-MTT]): 256-258.

Several papers in the past ten years have considered analysis of harmonic generators with a nonlinear reactance. The most comprehensive work on the varactor multipliers is by Penfield and Rafuse, in which a detailed analysis of the frequency tripler has been made using abrupt-junction varactors. Leonard has made a detailed analysis of varactor frequency doublers to predict the power and efficiency for non-linearities ranging from graded-junction to hyperabrupt-junction varactors.

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