Abstracts

Millimeter Frequency Multiplication with an In-Line Harmonic Generator (Correspondence)

E.G. Wessel and R.J. Strain. "Millimeter Frequency Multiplication with an In-Line Harmonic Generator (Correspondence)." 1964 Transactions on Microwave Theory and Techniques 12.1 (Jan. 1964 [T-MTT]): 139-141.

When building a crystal frequency multiplier to generate harmonics in the millimeter region, one may improve conversion efficiencies by one of two basic techniques: selecting an improved nonlinear junction, or improving the physical and electrical environment of that junction. This communication will describe an in-line frequency multiplier designed to facilitate changing semiconductors and whiskers to evaluate their efficacy in generating the third and fourth harmonics of a 22-Gc drive signal. In addition, the test results on several different semiconductors will be presented.

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