Abstracts

Frequency Measurements in the Far Infrared: Limitations Imposed by the Noise Spectrum in Harmonic Mixing (Correspondence)

L. Frenkel and T. Sullivan. "Frequency Measurements in the Far Infrared: Limitations Imposed by the Noise Spectrum in Harmonic Mixing (Correspondence)." 1969 Transactions on Microwave Theory and Techniques 17.5 (May 1969 [T-MTT]): 281-282.

Beat frequencies resulting from several orders of mixing of the power of two klystrons have been studied on a spectrum analyzer. The 5th-order beat note of klystrons operating at 130 and 65 GHz, respectively, has been counted directly. It is found that higher order beats are generally buried in the noise but that the frequency average can be accurately determined.

❑ Return to main document.