

Abstracts

Wide-Band Frequency Discriminator with High Linearity

U.H. Gysel and J.P. Watjen. "Wide-Band Frequency Discriminator with High Linearity." 1977 MTT-S International Microwave Symposium Digest 77.1 (1977 [MWSYM]): 373-376.

A 7-to-11-GHz frequency discriminator with high linearity has been built using microwave integrated circuits (MICs). The critical subcomponent parameters of the discriminator were determined by computer analysis. The key elements of the design are balanced detectors with controlled terminations for internally generated harmonics and a gain equalizer to compensate for frequency-dependent losses. Linearity of the unit is better than $\pm 0.85\%$.

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