

Abstracts

A New "Phased-Type" Image Enhanced Mixer

L.E. Dickens and D.W. Maki. "A New "Phased-Type" Image Enhanced Mixer." 1975 MTT-S International Microwave Symposium Digest of Technical Papers 75.1 (1975 [MWSYM]): 149-151.

GaAs Schottky Barrier diodes with a zero bias cutoff frequency of 800 GHz have been used in an integrated circuit balanced mixer operating with a signal frequency centered at 12 GHz and an IF of 70 MHz. $L_{sub c/}$ at centerband was 2.2 dB. For an LO tunable bandwidth of over .65 GHz, the conversion loss was under 3.0 dB. No image filter is used in this mixer. The conversion loss across the image band was greater than 25 dB.

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