

Abstracts

A Practical Wide Band GaAs Phase Detector

I. Shahriary, T.S. Lin and K. Weller. "A Practical Wide Band GaAs Phase Detector." 1982 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 82.1 (1982 [MCS]): 47-49.

A GaAs monolithic phase detector operating over the frequency range of 1 MHz to 8 GHz, with a phase detection sensitivity factor of up to 1.6 has been developed at TRW. The detector circuit consists of a doubly balanced transconductance multiplier which has a total of 7 FETs and requires only one DC bias point. The detector chip measures 30 x 35 MILS and has a DC power consumption of 100 mW.

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