

Abstracts

Monolithic Gallium Arsenide I-Q Demodulator

V.P. O'Neil, C. Ryan and C. Weitzel. "Monolithic Gallium Arsenide I-Q Demodulator." 1984 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 84.1 (1984 [MCS]): 14-18.

The monolithic gallium arsenide demodulator described herein demodulates the in-phase (I) and quadrature (Q) components of two signal channels on carriers identical in frequency but in quadrature phase relationships. The present demodulator is shown to be closely matched because of close matching of component parameters achieved by fabricating the entire demodulator on a single gallium arsenide chip. The demodulator can be developed to, replace diode ring demodulators to obtain the following advantages.

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