

Abstracts

Low Cost X-Band MIC BARITT Doppler Sensor

S.P. Kwok and K.P. Weller. "Low Cost X-Band MIC BARITT Doppler Sensor." 1979 Transactions on Microwave Theory and Techniques 27.10 (Oct. 1979 [T-MTT]): 844-847.

An MIC X-band BARITT self-mixing oscillator has been developed. A minimum detectable signal below carrier of - 139 dB/Hz at 100 kHz away from carrier was achieved at 1-mW signal carrier. A low cost, compact and sensitive hybrid MIC Doppler sensor module was constructed, incorporating the BARITT MIC circuit and a microstrip antenna.

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