

Abstracts

A Family of Four Monolithic VCO MIC's Covering 2-18 GHz

B.N. Scott, M. Wurtele and B.B. Cregger. "A Family of Four Monolithic VCO MIC's Covering 2-18 GHz." 1984 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 84.1 (1984 [MCS]): 58-61.

Four GaAs monolithic voltage controlled oscillator chips were designed and fabricated which cover the 2-4 GHz, 4-7 GHz, 7-12 GHz, and 12-18 GHz bands. Minimum output power of the four bands was +12 dBm in the 12-18 GHz band with a maximum output power of +20 dBm in the 7-12 GHz band. Typical power flatness was ± 5 dBm in any band. The monolithic chips include a FET, two varactors, gate and source inductors, bypass capacitors, and bias resistors. The paper will discuss design considerations and performance.

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