

Abstracts

Monolithic Voltage Controlled Oscillator for X and Ku-Bands (1982 [MWSYM])

B.N. Scott and G.E. Brehm. "Monolithic Voltage Controlled Oscillator for X and Ku-Bands (1982 [MWSYM])." 1982 MTT-S International Microwave Symposium Digest 82. 1 (1982 [MWSYM]): 482-485.

A GaAs Voltage Controlled Oscillator Circuit that tunes from 11.15 to 14.39 GHz and 16.0 to 18.74 GHz has been designed and fabricated. The 1.1 mm x 1.2 mm chip includes two varactors, a 300 μm FET, bypass capacitors, tuning inductors and isolation resistors. Wideband circuit design techniques will be described. Varactor and circuit effects causing the non-continuous bandwidth will be discussed showing the capability of continuous 11 to 18 GHz tuning using a single GaAs chip.

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