Abstracts

A Ku-Band Oscillator Subsystem Using a Broadband GaAs MMIC Push-Pull Amplifier/Doubler

R. Martin and F. Ali. "A Ku-Band Oscillator Subsystem Using a Broadband GaAs MMIC Push-Pull Amplifier/Doubler." 1991 Microwave and Guided Wave Letters 1.11 (Nov. 1991 [MGWL]): 348-350.

The design and performance results of a Ku-band voltage controlled oscillator subsystem using a broadband GaAs MMIC push-pull amplifier as a frequency doubler is described. The subsystem utilizes both GaAs MMIC and Si Bipolar technologies to achieve the desired performance objectives. The oscillator sub-system is tunable over the 14-18 GHz frequency range with minimum output power of 18 dBm and phase noise of -88 dBc/Hz at 100 KHz offset from the carrier over 0 to +65°C temperature range.

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