

Abstracts

Solid State V-Band Local Oscillator and Mixer

X.A. De Angelis. "Solid State V-Band Local Oscillator and Mixer." 1964 PTGMTT International Symposium Program and Digest 64.1 (1964 [MWSYM]): 163-164.

The technique used to obtain an all-solid-state local oscillator at 68.5 Gc consisted of driving a varactor harmonic generator chain with a transistor-power amplifier. The source was a crystal-controlled transistor oscillator in a temperature-compensated oven yielding a stability of three parts in 10^{sup} 6/ at a frequency of 44.596 Mc. Alternatively, an external stable source with a 4 milliwatt, 50 ohm output may be used to drive the exciter-power amplifier. The exciter-power amplifier contains a buffer amplifier, a tripler and appropriate power amplification to yield 14 watts at 133.789 Mc from two 2N2876 transistors.

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