

Abstracts

A mm-Wave Miniaturized Phase-Lock Source for Low Noise Receiver Applications

L. Bui, R. Hennegan and N. Ton. "A mm-Wave Miniaturized Phase-Lock Source for Low Noise Receiver Applications." 1986 MTT-S International Microwave Symposium Digest 86.1 (1986 [MWSYM]): 367-370.

A mm-wave miniaturized phase-locked source has been developed using a modular concept. The mm-wave hardware is integrated into a single module, and the total phase-locked electronics is reduced to a 2 x 2 inch, 3-layer PC board using SMD (surface-mounted devices). The total phase-locked system with stable internal reference occupies less than 12 cubic inches. The system delivers 50 milliwatts at 84.1 GHz with crystal stability.

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