

Abstracts

A Ka-Band Dual-Channel Tracking Receiver Converter

M.A. Smith, A.M. Pavio and B. Kim. "A Ka-Band Dual-Channel Tracking Receiver Converter." 1986 MTT-S International Microwave Symposium Digest 86.1 (1986 [MWSYM]): 643-644.

An amplitude and phase tracking integrated receiver converter, with a self-contained local oscillator, has been developed for a variety of EW applications in Ka-band. The module described, which operates in a band centered at 34 GHz, employs a dual double-balanced mixer, a push-push dielectric resonator local oscillator, and a monolithic LO buffer amplifier. The module was assembled using microstrip circuit techniques and coaxial connectors and can easily be integrated with other system components.

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