

Abstracts

A Phase Modulator with Gain for Microwave Millimeter-Wave Systems

R.S. Robertson. "A Phase Modulator with Gain for Microwave Millimeter-Wave Systems." 1990 MTT-S International Microwave Symposium Digest 90.2 (1990 Vol. II [MWSYM]): 921-922.

This paper presents a method to achieve phase modulation directly at microwave and millimeter-wave frequencies with concurrent signal amplification. The modulation is achieved with a voltage controlled oscillator and circulator. The technique is demonstrated experimentally with the generation of a bi-phase coded signal at Ku-band with a signal gain of 10 dB.

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