

Abstracts

A 10-14 GHz Linear MMIC Vector Modulator with Less Than 0.1dB and 0.8° Amplitude and Phase Error (1990 [MCS])

F.L.M. van den Bogaart and R. Pyndiah. "A 10-14 GHz Linear MMIC Vector Modulator with Less Than 0.1dB and 0.8° Amplitude and Phase Error (1990 [MCS])." 1990 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 90.1 (1990 [MCS]): 131-134.

The design, fabrication and performance of a GaAs monolithic linear vector modulator in the 10-14 GHz band is described. The circuit exhibits side band and carrier rejections of more than 45 dB with third order intermodulation signals at -40 dBc. Such performance has never been obtained previously in neither hybrid nor monolithic technology.

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