Abstracts

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

F.L.M. van den Bogaart and R. Pyndiah. "A 10-14 GHz Linear MMIC Vector Modulator with Less Than 0.1 dB and 0.8° Amplitude and Phase Error (1990 Vol. I [MWSYM])." 1990 MTT-S International Microwave Symposium Digest 90.1 (1990 Vol. I [MWSYM]): 465-468.

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.

❑ Return to main document.