

Abstracts

Design and Performance of a 94 GHz HEMT Mixer

P.D. Chow, D. Garske, J. Velebir, E. Hsieh, Y.C. Ngan and H.C. Yen. "Design and Performance of a 94 GHz HEMT Mixer." 1989 MTT-S International Microwave Symposium Digest 89.2 (1989 Vol. II [MWSYM]): 731-734.

A 94 GHz HEMT mixer was designed and fabricated using 0.1 μm gate HEMT device and hybrid MIC circuit. The mixer downconverts the 92-96 GHz RF to a 8-12 GHz IF. At 4-dBm LO drive, the mixer showed 5.8 dB conversion loss, 12.4 dB noise figure, and -3.2 dBm input power at the 1-dB gain compression point.

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