

Abstracts

60 GHz Power Amplifier Using PHEMT

J. Goel, K.L. Tan, D.I. Stones, R.W. Chan, D.C. Streit, S. Peratoner and J. Schellenberg. "60 GHz Power Amplifier Using PHEMT." 1992 MTT-S International Microwave Symposium Digest 92.2 (1992 Vol. II [MWSYM]): 587-589.

A Millimeter developed wave power amplifier has been using 0.15 μ m, T-gate pseudomorphic HEMT. It utilizes a novel low loss planar combiner. The performance obtained was 715 mWatt output power with more than 13 dB linear gain at 60 GHz, which are highest reported in the literature to date. These state-of-the-art results are attributed to the excellent device and combiner performance.

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