

# Abstracts

## Three dimensional power amplifier and special elements design

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*A. Darwish, A. Ezzeddine, H.C. Huang and M. Mah. "Three dimensional power amplifier and special elements design." 2000 MTT-S International Microwave Symposium Digest 00.3 (2000 Vol. III [MWSYM]): 1909-1911.*

We report a 3D GaAs X-band PA MMIC delivering over two watts with excellent gain. Additionally, excellent performance is obtained from a very compact ultra-long delay line, and a multi-layer inductor. Transmission line losses are measured. This technology is attractive for Si also.

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