

# Abstracts

## **K/Ka-band low-noise embedded transmission line (ETL) MMIC amplifiers (Dec. 1998, Part II [T-MTT])**

*Hua-Quen Tseng, L.C. Witkowski, A.A. Ketterson, P. Saunier and T. Jones. "K/Ka-band low-noise embedded transmission line (ETL) MMIC amplifiers (Dec. 1998, Part II [T-MTT])." 1998 Transactions on Microwave Theory and Techniques 46.12 (Dec. 1998, Part II [T-MTT] (1998 Symposium Issue)): 2604-2610.*

The design, fabrication, and performance of producible, high-performance K and Ka-band pHEMT low-noise MMIC amplifiers using the embedded transmission line (ETL) circuit concept with top-side grounding are reported. A state-of-the-art noise figure of 1.2 dB with 25-dB gain is achieved at 31 GHz. These amplifiers can be implemented in low-cost, ultra-compact receiver modules for emerging spaceborne phased-array communication applications.

[Return to main document.](#)

Click on title for a complete paper.