

Abstracts

Ku-band MMIC's in low-cost, SMT compatible packages (2002 Vol. I [MWSYM])

H.C. Huang, A. Ezzeddine, A. Darwish, B. Hsu, J. Williams and S. Peak. "Ku-band MMIC's in low-cost, SMT compatible packages (2002 Vol. I [MWSYM])." 2002 MTT-S International Microwave Symposium Digest 02.1 (2002 Vol. I [MWSYM]): 27-30 vol. 1.

MM-wave components are very expensive due to the high package and assembly cost. This paper describes a 0.25 /spl mu/m PHEMT Ku-band 2-watt PA, and a 2.2 dB NF LNA MMIC in a low-cost SMT package (\$2.00). The package has excellent thermal resistance, 0.5 C/W, return loss (20 dB), and input/output isolation (40 dB), from DC-40 GHz. We believe this is the first time such a package design has been published.

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