

Abstracts

Ku-band MMIC's in low-cost, SMT compatible packages (2002 [RFIC])

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 [RFIC])." 2002 Radio Frequency Integrated Circuits (RFIC) Symposium 02. (2002 [RFIC]): 281-284.

mm-wave components are very expensive due to the high package and assembly cost. This paper describes a 0.25 um 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 is published.

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