Abstracts

Ka-Band High Efficiency Power Amplifier MMIC with 0.30 µm MESFET for High Volume Applications (Short Papers)

J. Mondal, J. Geddes, D. Carlson, M. Vickberg, S. Bounnak and C. Anderson. "Ka-Band High Efficiency Power Amplifier MMIC with 0.30 µm MESFET for High Volume Applications (Short Papers)." 1992 Transactions on Microwave Theory and Techniques 40.3 (Mar. 1992 [T-MTT]): 563-566.

A single-ended three-stage MESFET power amplifier designed for high-volume, low-cost applications shows an average of 15-21% power added efficiency in Ka-band with 100-150 mW of power output over 30-35 GHz. Delta < S21 with power saturation, an important parameter in phased array applications, is also reported. Efficiencies as high as 28% are measured on good wafers with high on-wafer repeatability under power drive.

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