

Abstracts

Ultra-Flat Low-Power Process Insensitive Ku-Band HEMT Feedback MMIC

D.R. Helms and M.J. Fithian. "Ultra-Flat Low-Power Process Insensitive Ku-Band HEMT Feedback MMIC." 1992 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 92.1 (1992 [MCS]): 17-19.

A three-stage Ku-band MMIC amplifier, using feedback design and 0,25 μm gate-length single heterojunction HEMT devices, has demonstrated improved process insensitivity with state-of-the-art gain flatness and power dissipation. The amplifier exhibited 0.25 dB flatness from 11.4 -12.4 GHz using less than 150 mW to deliver 25 dB gain.

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