Abstracts

Production Technology Development for High Yield, High Performance X-Band Monolithic Power and Low Noise Amplifiers

C.D. Chang, S.K. Wang, L.C.T. Liu, M. Siracusa, H. Yamasaki and J.M. Schellenberg. "Production Technology Development for High Yield, High Performance X-Band Monolithic Power and Low Noise Amplifiers." 1985 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 85.1 (1985 [MCS]): 46-49.

A production technology for high yield and high performance MMIC's has been developed. Two stage X-band power amplifier and low noise amplifiers were used as test vehicles in this producibility study. The power amplifier chips have consistently demonstrated a 1.5 watt output power with 9 dB gain and 20% power added efficiency. The low noise amplifier chips have achieved a reproducible performance of less than 3 dB noise figure with 20 dB gain. Producibility improvement of MMIC chip fabrication has achieved an average yield well in excess of 10%.

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