

Abstracts

A UHF Band 1.3W Monolithic Amplifier with Efficiency of 63%

T. Takagi, Y. Ikeda, K. Seino, G. Toyoshima, A. Inoue, N. Kasai and M. Takada. "A UHF Band 1.3W Monolithic Amplifier with Efficiency of 63%." 1992 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 92.1 (1992 [MCS]): 35-38.

A UHF band 1.3W 4-stage monolithic amplifier with an efficiency of 63% has been developed for transmitters of mobile communications. To obtain a high efficiency, a novel miniaturized second harmonic terminating circuit was devised, having a parallel resonant circuit comprised of lumped elements. The size of the amplifier is 8.6 X 5.8mm.

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