

Abstracts

A High Gain GaAs MESFET Frequency Quadrupler

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This paper presents a comprehensive analysis carried out on a frequency quadrupler from 1 to 4 GHz using a 1 μ m dual gate GaAs MESFET. Two different circuit options are proposed, namely with and without feedback. They were constructed on soft substrates and the preliminary microwave results are a + 10 mW output power with a 8.5 dB associated multiplication gain and 6% DC-to-RF power efficiency.

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