

# Abstracts

## A multicarrier amplifier with low third-order intermodulation distortion

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*W.J. Jenkins and A. Khanifar. "A multicarrier amplifier with low third-order intermodulation distortion." 2000 MTT-S International Microwave Symposium Digest 00.3 (2000 Vol. III [MWSYM]): 1515-1518.*

This paper describes the application of a novel amplifier linearisation technique that reduces third-order intermodulation distortion (IMD3). Linearity is improved by adding a carefully-engineered linearising signal to the RF carrier(s). Mathematical analysis, simulation and practical results are presented. Typical measured results with 4-tone input signals show a reduction in third-order intermodulation distortion components of between 9 dB and 26 dB.

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