

# Abstracts

## A calibrated RF/IF monolithic vector analyzer

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*J. Cowles and B. Gilbert. "A calibrated RF/IF monolithic vector analyzer." 2001 MTT-S International Microwave Symposium Digest 01.3 (2001 Vol. III [MWSYM]): 2163-2166 vol.3.*

This work presents the first monolithic integrated circuit that provides precise, scaled measurements of gain and phase difference between two signals up to 3 GHz. A 60 dB gain range and 180 degree phase range are achieved with 30 mV/dB and 10 mV/degree scaling, respectively. This function has wide application for in-situ measurement of vector RF parameters and in linearization of transmission systems such as power amplifiers.

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