Abstracts

W-Band MMIC Characterization in an Isothermal Environment

H. Wang and M. Sayed. "W-Band MMIC Characterization in an Isothermal Environment." 1995 Microwave and Guided Wave Letters 5.12 (Dec. 1995 [MGWL]): 429-431.

A W-band pulsed network analyzer has been developed to emulate an isothermal environment for on-wafer characterization of MMIC's. Testing results of a W-band monolithic power amplifier with a dc power consumption of 728 mW show an increase of 0.9 dB for small signal gain at 94 GHz in the isothermal environment. The measurement system and the MMIC testing are described in this letter. To our knowledge, this is the first demonstration of the on-wafer isothermal MMIC measurement at this frequency.

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