

Abstracts

GaAs MMIC Thermal Modeling for Calculation of Accurate Channel Temperatures

V.J. Ferrara, A. Garnett, S. Park and A.B. Solan. "GaAs MMIC Thermal Modeling for Calculation of Accurate Channel Temperatures." 1995 MTT-S International Microwave Symposium Digest 95.3 (1995 Vol. III [MWSYM]): 1143-1146.

To accurately determine GaAs MMIC channel temperatures, an automated model generation program has been developed. The results were correlated with IR Scanning techniques to verify the Finite Element Model. This model was used to generate a unique temperature profile for each device, which is used for higher level models, saving time while maintaining accuracy.

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