

Abstracts

A Novel Millimeter-Wave HEMT Noise Modeling Procedure

M.D. DuFault, J.Z. Lin and A.K. Sharma. "A Novel Millimeter-Wave HEMT Noise Modeling Procedure." 1995 MTT-S International Microwave Symposium Digest 95.2 (1995 Vol. II [MWSYM]): 939-942.

Significant improvements in the accuracy of noise models of millimeter-wave HEMT devices are obtained using on-wafer noise prematched structures and through enhanced accuracy of calibration. This procedure enables scaling of device noise models obtained at microwave frequencies to millimeter wave frequencies. Good correlation between noise parameters of scaled devices with experimental data at millimeter wave frequencies is obtained.

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