

Abstracts

Noise temperature estimates for a next generation very large microwave array [HEMT LNAs]

S. Weinreb. "Noise temperature estimates for a next generation very large microwave array [HEMT LNAs]." 1998 MTT-S International Microwave Symposium Digest 98.2 (1998 Vol. II [MWSYM]): 673-676.

This paper estimates the noise temperature as a function of frequency for amplifiers covering the 1 to 10 GHz range utilizing state-of-the-art HEMT transistors operating at temperatures of 300 K, 80 K, and 20 K. The analysis includes the effect of loss and bandwidth of the input matching network.

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