Abstracts

Broadband, Low-Noise, Cryogenically-Coolable Amplifiers in 1 to 40 GHz Range

M.W. Pospieszalski, J.D. Gallego and W.J. Lakatosh. "Broadband, Low-Noise, Cryogenically-Coolable Amplifiers in 1 to 40 GHz Range." 1990 MTT-S International Microwave Symposium Digest 90.3 (1990 Vol. III [MWSYM]): 1253-1256.

A design technique for very broadband, low-noise amplifiers is described. It is based on a wideband noise model of a MODFET. The computer-aided design and realization of L-, K-, K/sub a/-band and wideband 8-18 GHz cryogenically-coolable amplifiers with optimal noise performance are described. A uniqueness of results presented in this paper rest in the demonstration that a single frequency measurement of noise parameters provides sufficient information for a design of a number of wideband amplifiers in the 1-40 GHz range.

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