Abstracts

An MMIC Amplifier for Automatic Level Control Applications

K.R. Nary and R.L. Van Tuyl. "An MMIC Amplifier for Automatic Level Control Applications." 1990 Microwave and Millimeter-Wave Monolithic Circuits Symposium Digest 90.1 (1990 [MCS]): 73-76.

An automatic gain control amplifier for automatically-leveled output power, broadband, swept frequency applications to 3GHz has been developed. Consisting of a variable pi attenuator, four additive-gain amplifier stages, a temperature compensated peak detector and an output buffer, the amplifier features a maximum leveled gain of 22dB, a gain control range of 25dB, good input and output matches to 50 Omega and suppressed 2nd harmonic distortion, It operates with ±6V power supplies and dissipates approximately 800mW.

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