Abstracts

A Novel Cascode Feedback GaAs MMIC LNA with Transformer-Coupled Output Using Multiple Fabrication Processes

F. Ali, C. Hutchinson and A. Podell. "A Novel Cascode Feedback GaAs MMIC LNA with Transformer-Coupled Output Using Multiple Fabrication Processes." 1992 Microwave and Guided Wave Letters 2.2 (Feb. 1992 [MGWL]): 70-72.

The design, development and performance of a novel high dynamic range cascode feedback GaAs MMIC LNA with transformer-coupled output is presented. The baseline design (chip size: 48 x 48 mils) operates over any 1 GHz bandwidth (with a simple off-chip input inductor) in the 0.5--3-GHz frequency range and has typically 15-dB small signal gain, 2.1-dB noise figure and greater than 15 dBm of output power at 1-dB gain compression point. Performance results of this circuit fabricated in three different foundry processes are also presented.

❑ Return to main document.