Abstracts

Enhanced Design of a Floating Broad-Band Lossless Tunable HBT Monolithic Active Inductor

C. Zanchi, T. Parra, L. Escotte and J. Graffeuil. "Enhanced Design of a Floating Broad-Band Lossless Tunable HBT Monolithic Active Inductor." 1996 MTT-S International Microwave Symposium Digest 96.3 (1996 Vol. III [MWSYM]): 1229-1232.

A floating HBT Tunable Active Inductor (TAI) MMIC is reported. Compared with FET circuit, analytical results and measurements show significant improvements over broad-band capability, tunability and selectivity (typical Q's are over 300). HF noise is also investigated and a minimum noise figure of 0.5 dB is achieved. Measured and simulated results are compared.

❑ Return to main document.