

Abstracts

X-Band Monolithic Series Feedback LNA (Dec. 1985 [T-MTT])

R.E. Lehmann and D.D. Heston. "X-Band Monolithic Series Feedback LNA (Dec. 1985 [T-MTT])." 1985 Transactions on Microwave Theory and Techniques 33.12 (Dec. 1985 [T-MTT] (1985 Symposium Issue)): 1560-1566.

An X-band monolithic three-stage low-noise amplifier (LNA) employing series feedback has demonstrated 1.8-dB noise figure with 30.0-dB gain and an input VSWR less than 1.2:1 at 10 GHz. The key to this design is using monolithic technology to obtain an exactly repeatable series feedback inductance to achieve a simultaneous noise match and input VSWR match.

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