

A 1 GHZ TO 3 GHZ DESIGN OF WIDEBAND LOW NOISE AMPLIFIER FOR MULTI- STANDARD MOBILE RECEIVER

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Abstract

A single ended low noise amplifier for multi-band multi-standard (1 GHz to 3 GHz) receiver has been designed, simulated and tested for performance. This design and implementation is based on inductively generator common source type. The results show a power gain of 8.99 dB, noise figure of 4.098 dB and input and output return loss is below -10 dB at center frequency.