



RAD-3

X-Band Low Noise Amplifier for Ground Radar Applications

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In this paper, the design and implementation of an X-band low noise amplifier (LNA) for ground radar applications have been introduced. A high performance (2-16 GHz) GaAs Schottky-barrier-gate FET has been employed in this design. The designed and fabricated LNA circuit satisfied all of the required specifications at 9.4 GHz with gain of 7 dB and noise figure of 1.2 dB with very good stability and IN/OUT reflection coefficients.