



# “The Low Noise Amplifier - LNA” (outline)

Noise Figure of a Two-Port Device

Practical Noise Figure Measurement (Y-Factor)

Noise Parameter Expressions

Input noise and power match

Matching Network Design Compromising Gain and Noise

Gain Circles - Associated gain - Noise circles

LNA Design Limitations

LNA Topologies Compared

LNA Design Flowchart & Methods

Biasing and device sizing for gain and noise

Design using Simultaneous Noise and Impedance Match (SNIM)

Design Examples using Power Constrained Noise Optimization (PCNO)

Load matching network design

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