



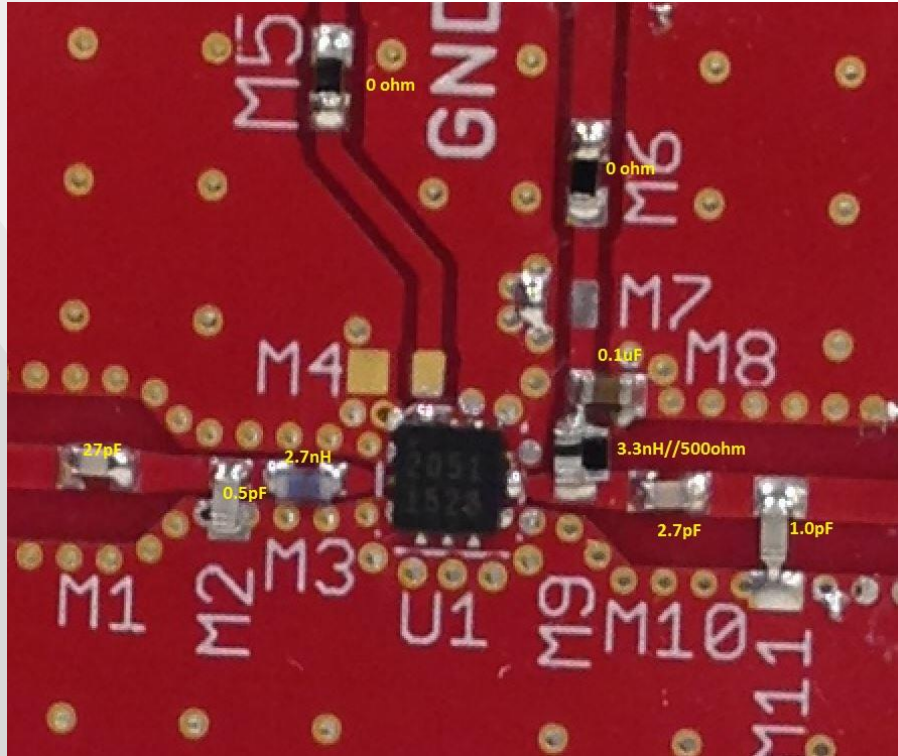
GRF2051: GPS LNA

Discussion:

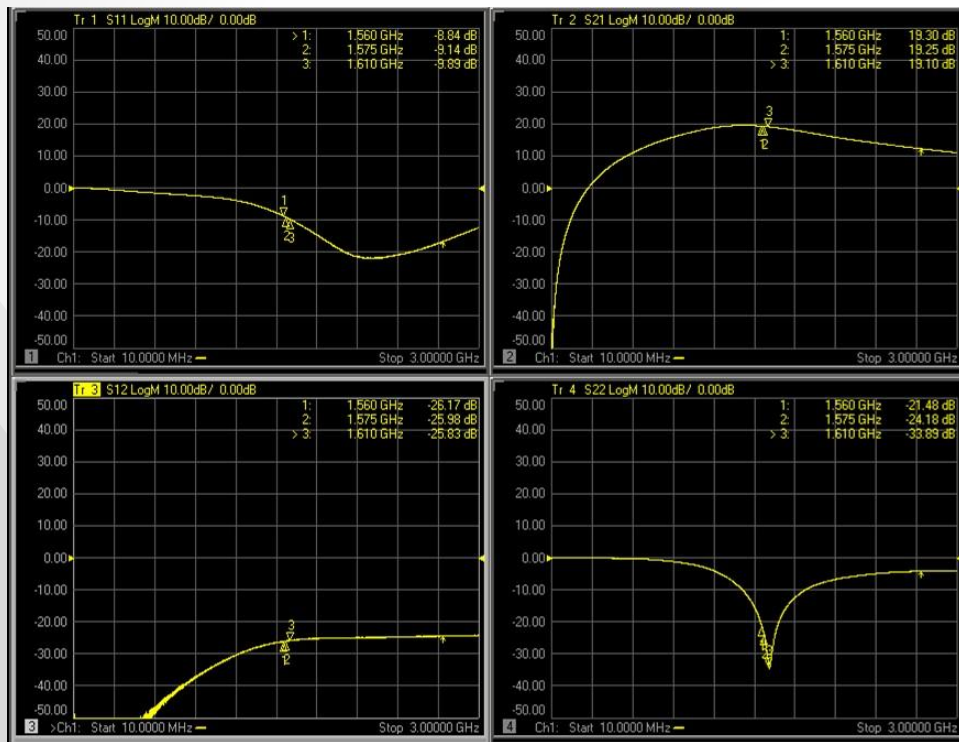
GRF2051 evaluated as per shown bias conditions:

Bias Point	Vdd V	Iddq mA	Ven V	Ien mA
3.3V/10mA	3.3	10	0.67	0.5
3.3V/20mA	3.3	20	1	1.1
3.3V/30mA	3.3	30	1.3	1.8

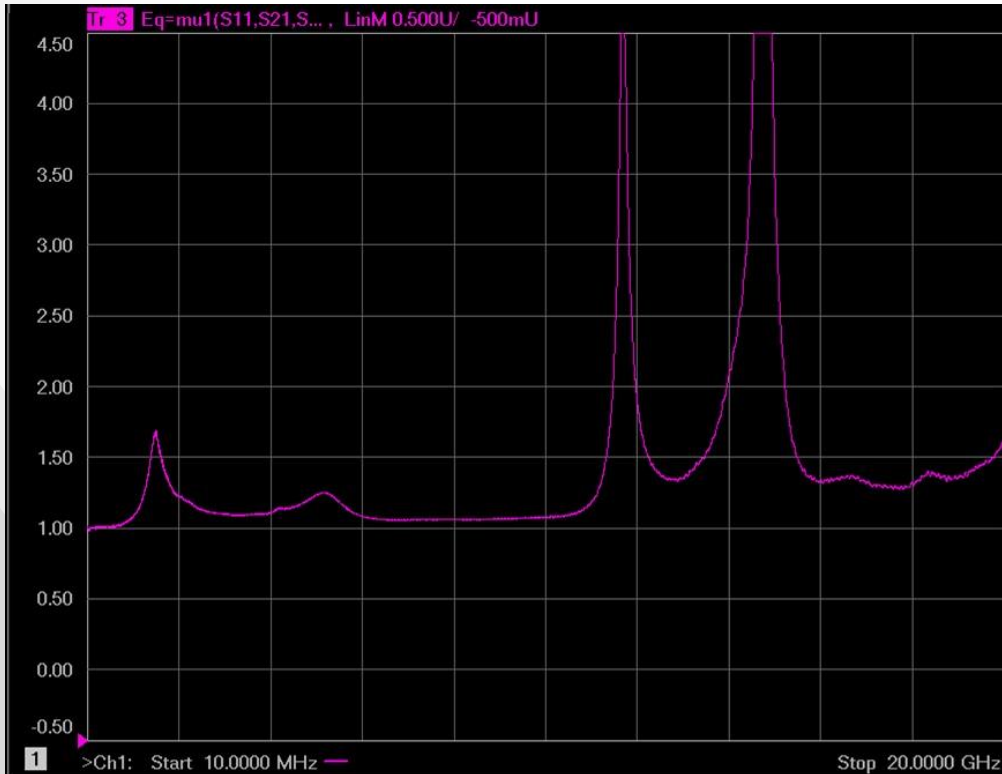
GRF2051 Schematic:



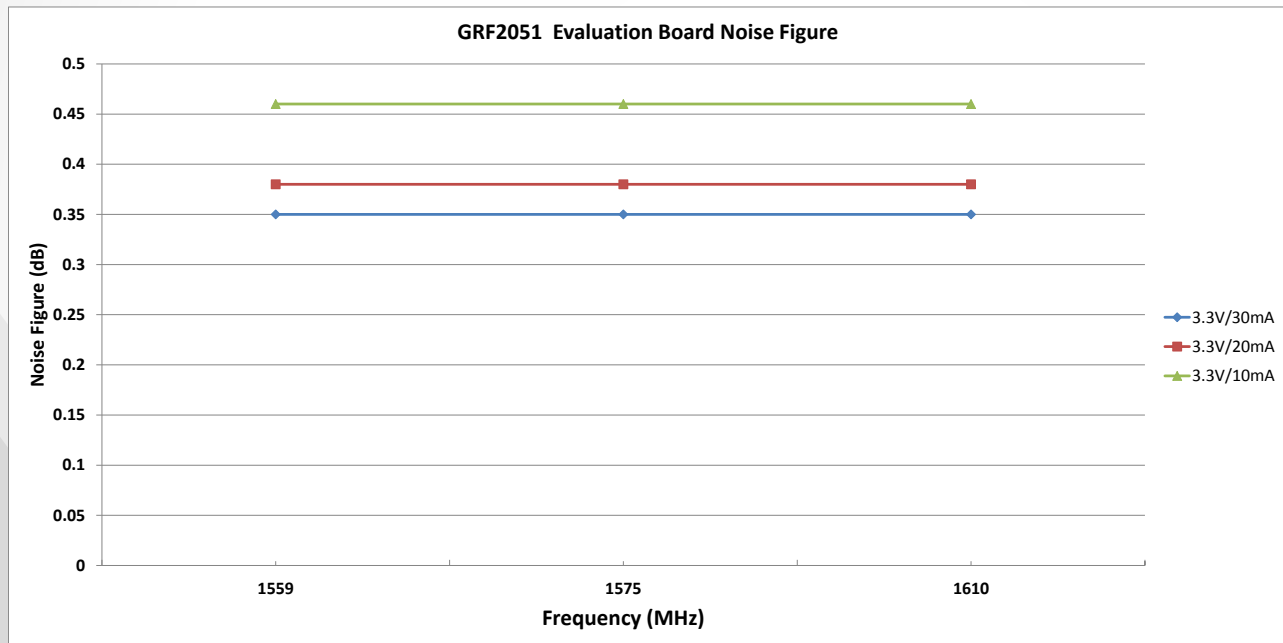
GRF2051 Response (3.3V/20mA):



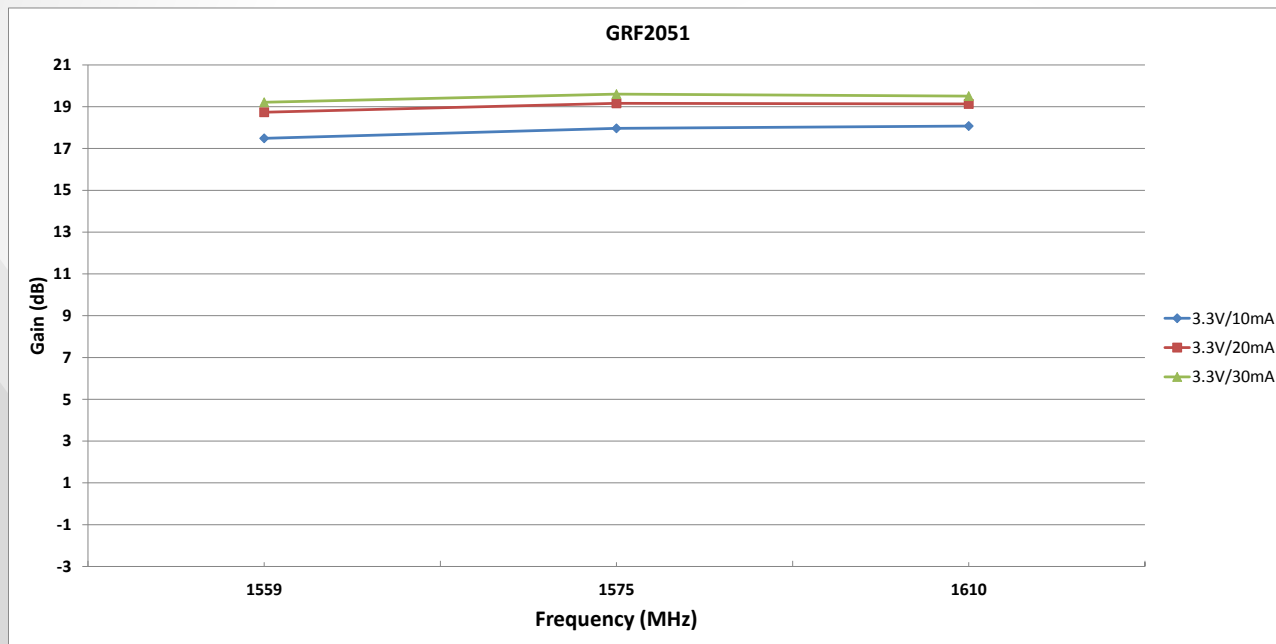
GRF2051 Stability Mu Factor:



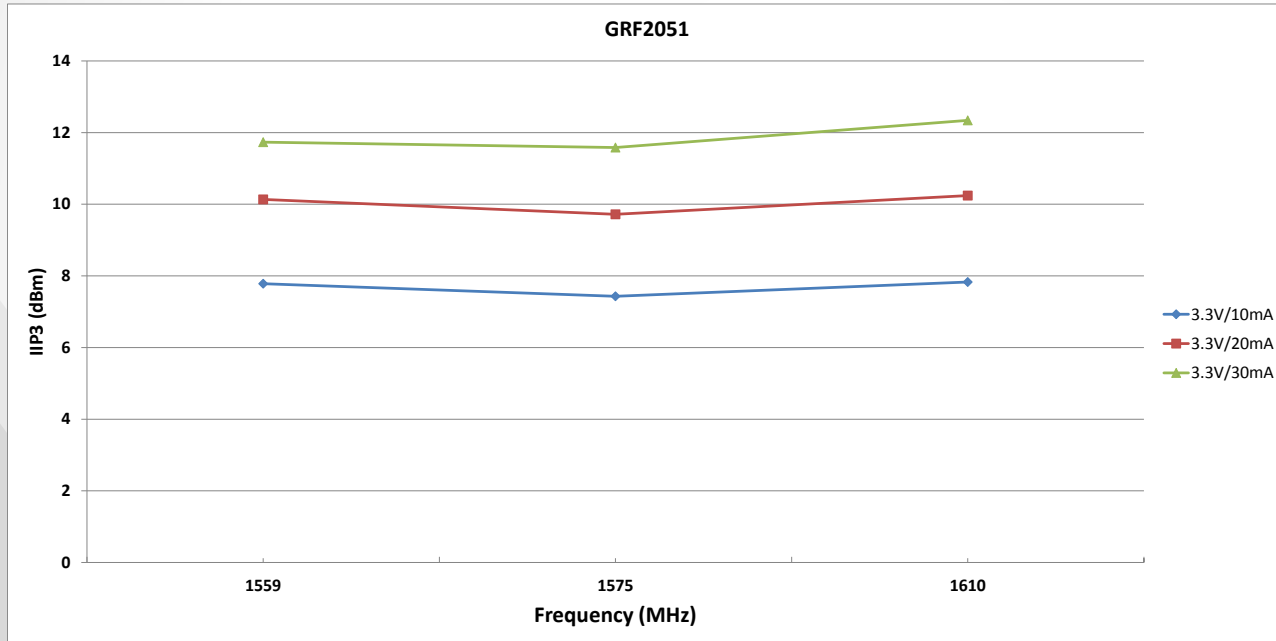
GRF2051 Evaluation Board Noise Figure:



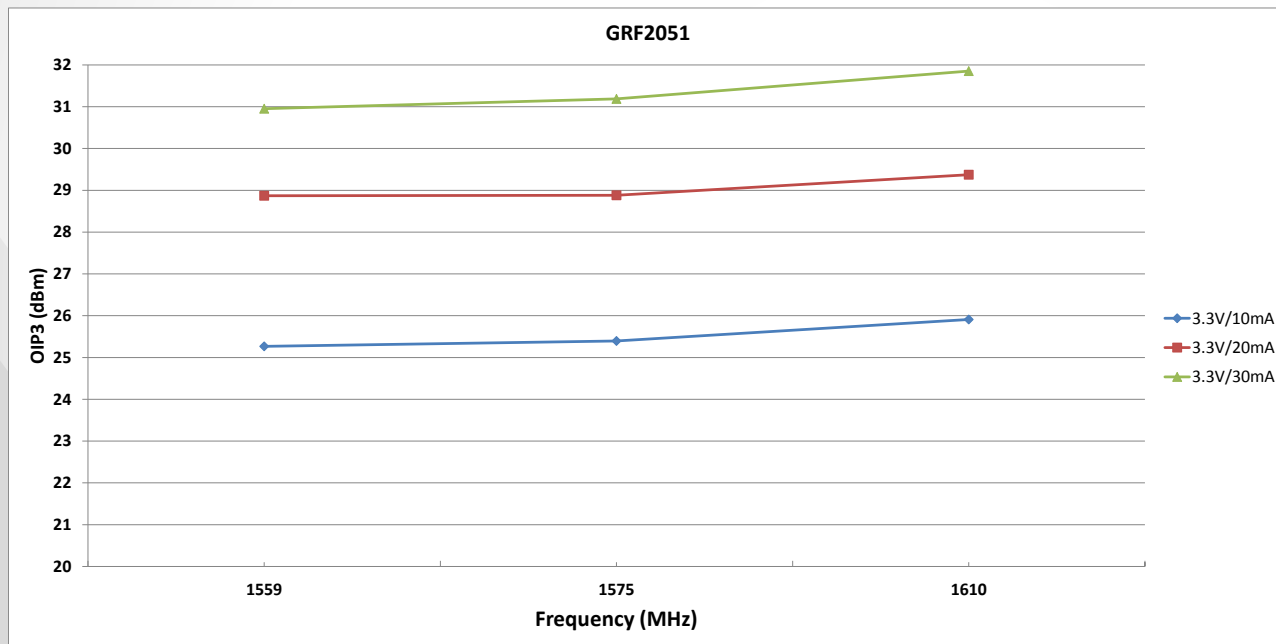
GRF2051 Gain:



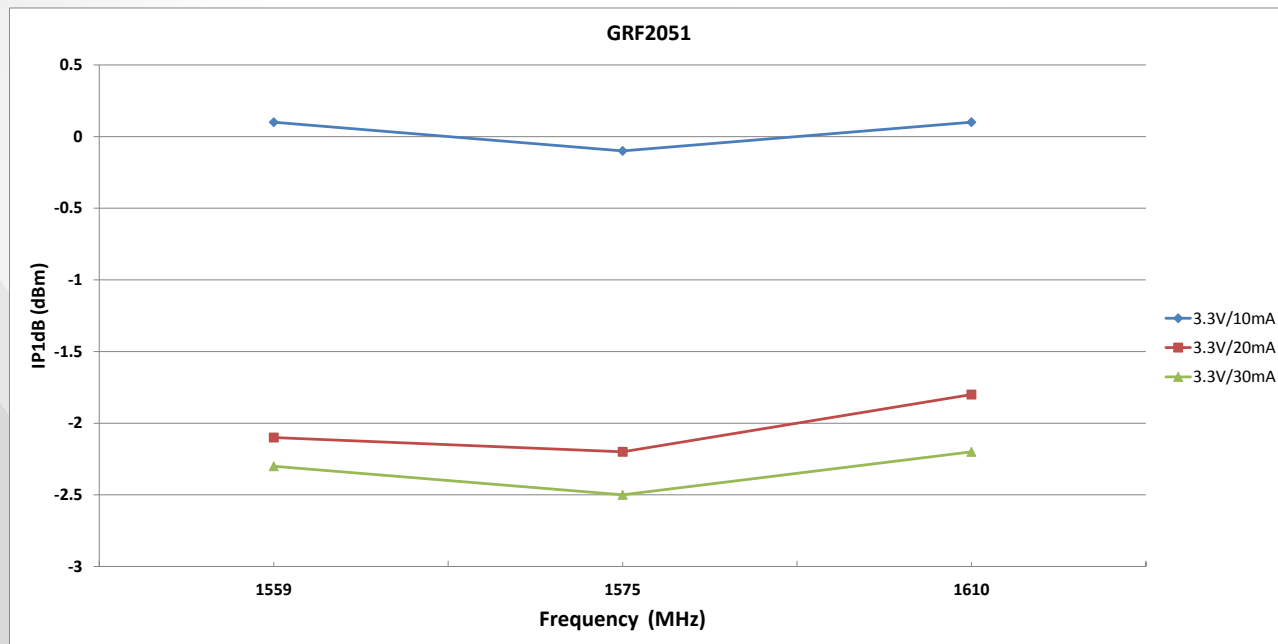
GRF2051 IIP3:



GRF2051 OIP3:

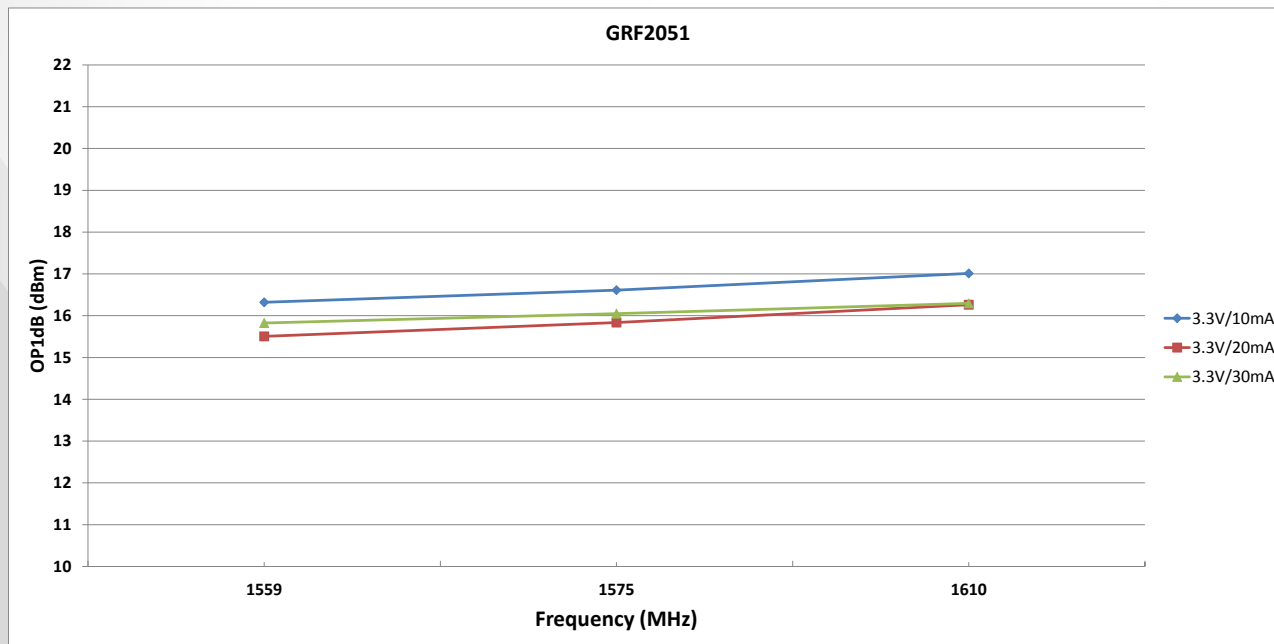


GRF2051 IP1dB:



GRF2051 OP1dB:

10 mA P1dB higher due to gain expansion.





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