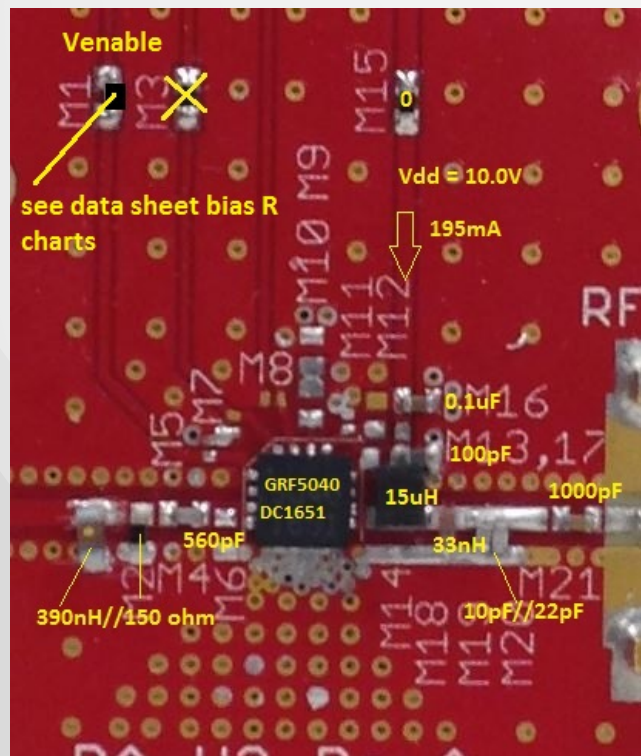




GRF5040 (25 - 35 MHz)

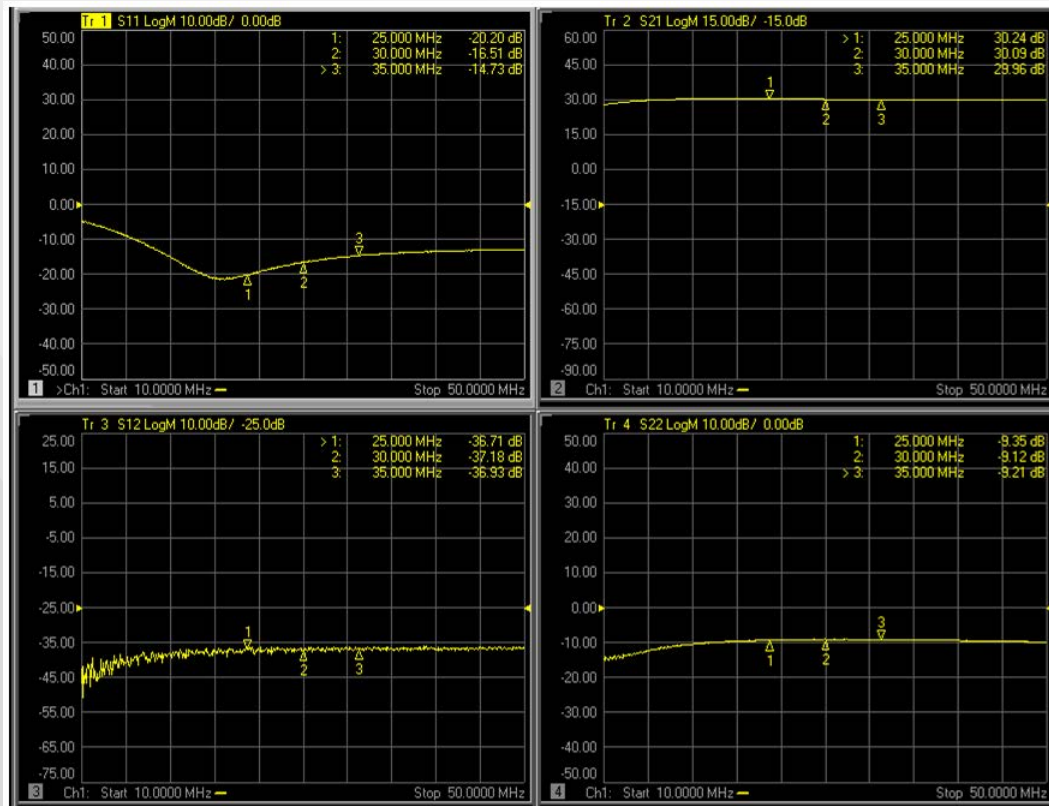
# GRF5040 Schematic:



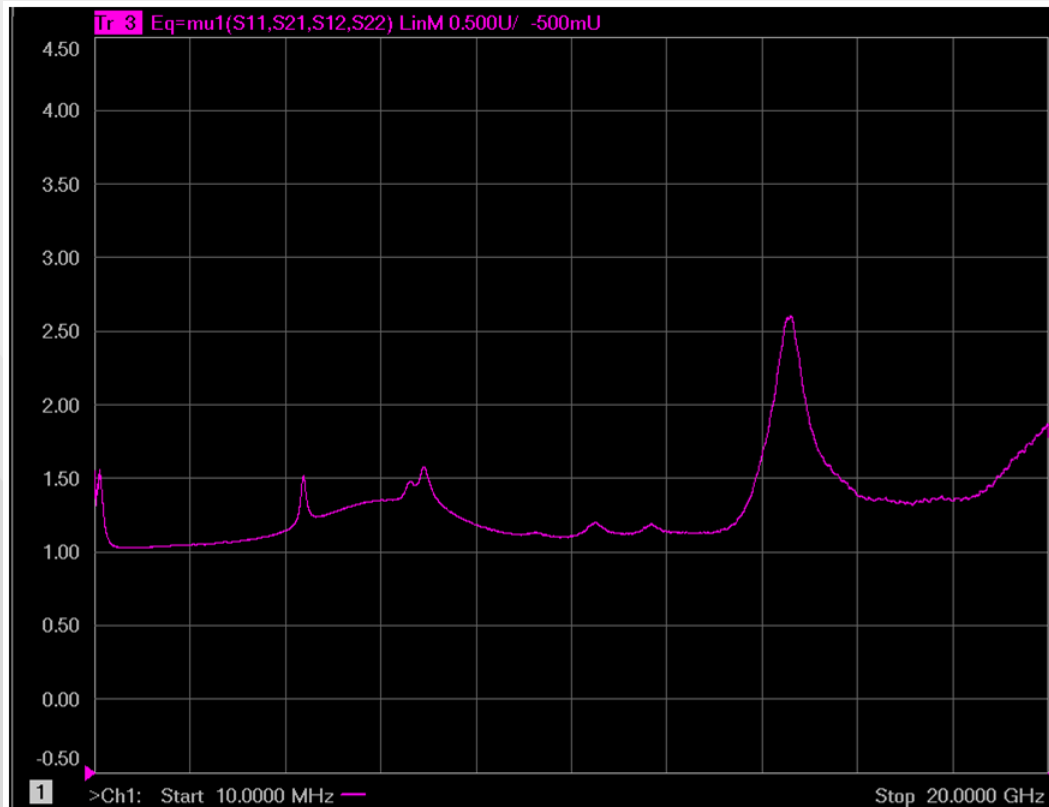
Data to be shown in follow up slides:

- NF, gain, IP3, P1dB
- Compression Curves:
  - Gain/Pout/Efficiency vs. RF drive

# GRF5040 Response:



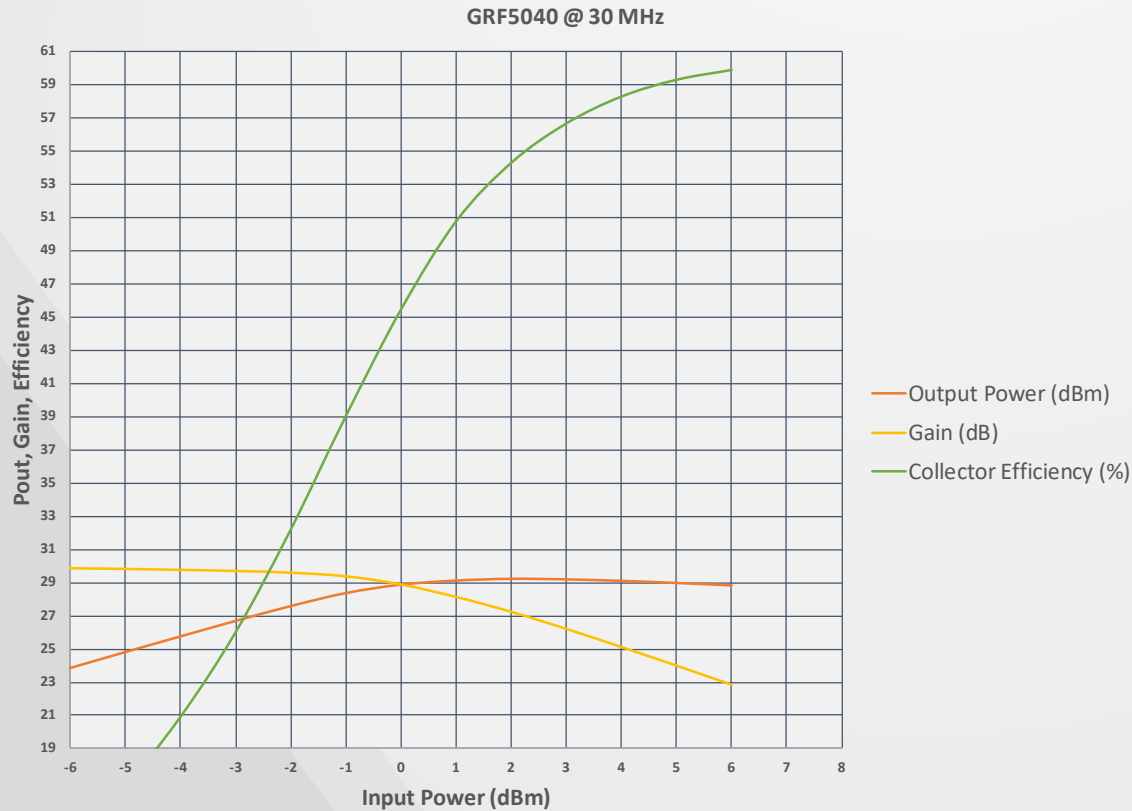
# GRF5040 Stability Mu Factor:



# GRF5040 Standard Data:

| Bias Point  | Freq MHz | Vdd  | Iddq mA | Pout/Ptone dBm | Gain dB | IIP3 dBm | OIP3 dBm | IP1dB dBm | OP1dB dBm | Efficiency @ P1dB % | EVB NF dB |
|-------------|----------|------|---------|----------------|---------|----------|----------|-----------|-----------|---------------------|-----------|
| 10.0V/200mA | 25       | 10.0 | 198.0   | 2.0            | 30.3    | 3.8      | 34.2     | -0.5      | 28.9      | 44.4                | 3.60      |
| 10.0V/200mA | 30       | 10.0 | 198.0   | 2.0            | 29.9    | 4.7      | 34.6     | 0.0       | 28.9      | 45.3                | 3.40      |
| 10.0V/200mA | 35       | 10.0 | 198.0   | 2.0            | 29.7    | 5.7      | 35.4     | 0.2       | 28.9      | 43.6                | 4.00      |

# GRF5040 Compression Curves @ 30 MHz:



29 dBm achieved with 27 dB gain and 54% efficiency.



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