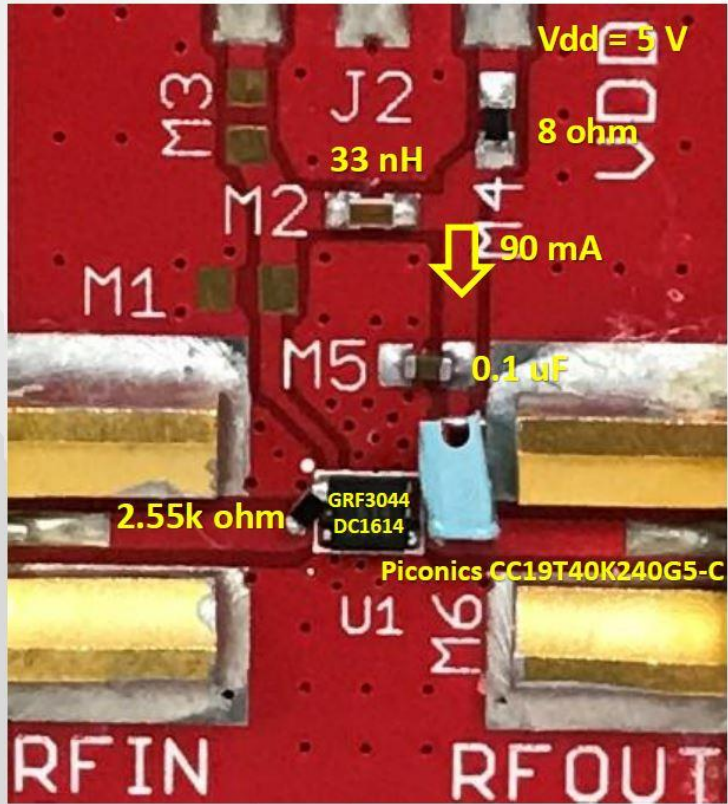




GRF3044 5.0V vs. 7.0V Configuration

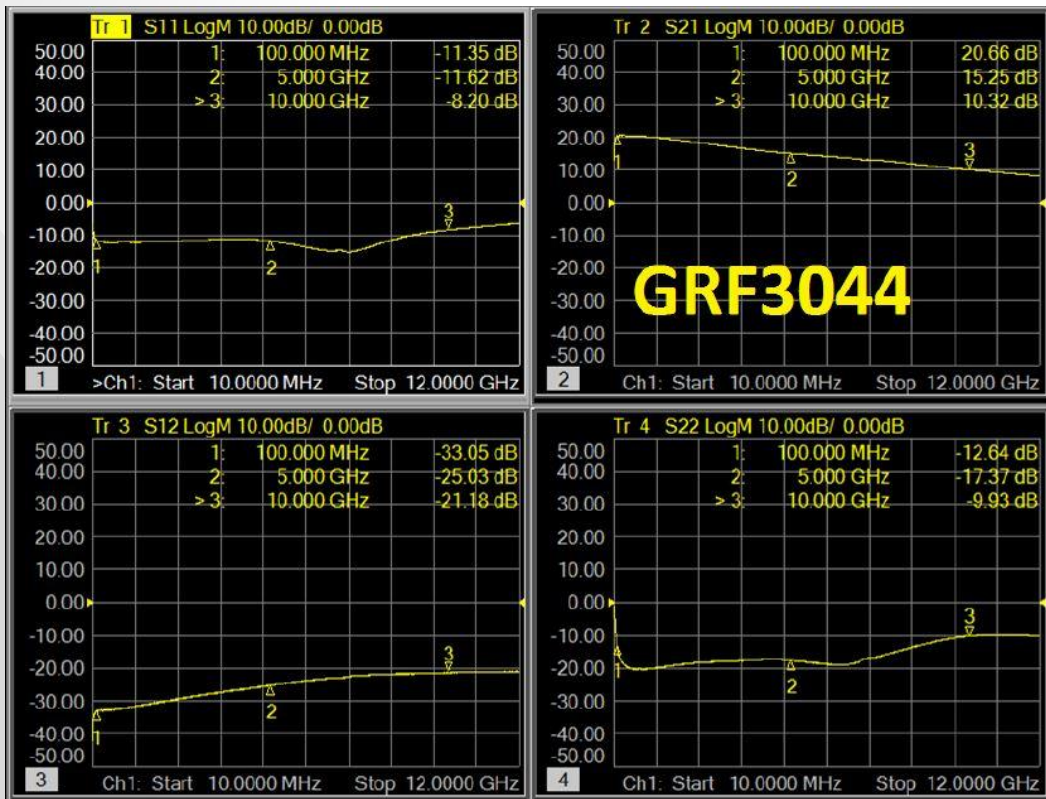
GRF3044 Schematic:



Vdd = 5.0V configuration shown. In order to configure for Vdd = 7.0V:

- Set Vdd = 7.0V
- Change 8 ohm at M4 to 12 ohm, yielding Iddq = 90mA (same Iddq as 5.0V config).
- Remove 33nH at M2 and 2.55K

GRF3044 Response:

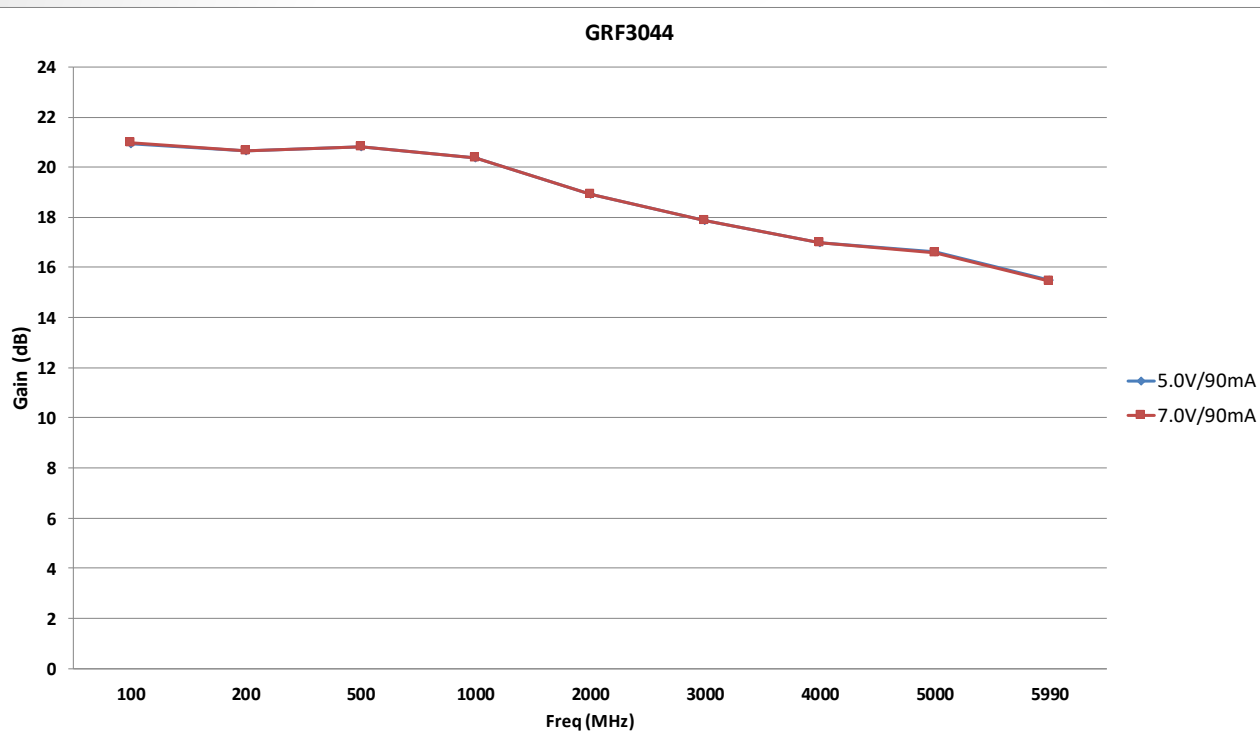


Response unchanged vs. configuration.

GRF3044 Stability Mu Factor:

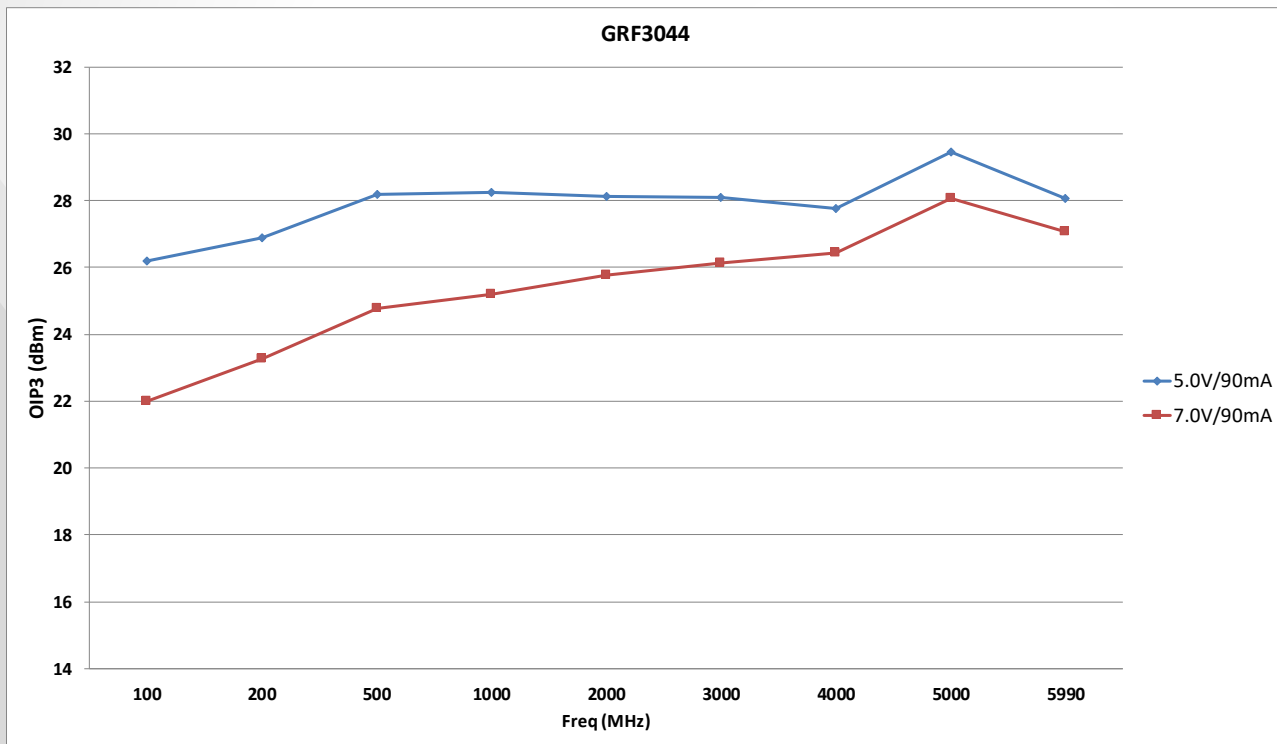


GRF3044 Gain:



Now compare data between the two configurations. Gain shows no delta, literally on top of each other.

GRF3044 OIP3:



OIP3 better with 5.0V config.

GRF3044 OP1dB:



OP1dB better with 7.0V config.



Jeff Broxson

Vice President - Sales

Phone (336) 339-9314

jbroxson@guerrilla-rf.com

Alan Ake

Vice President - Applications/Technical Marketing

Phone (336) 708-4581

aake@guerrilla-rf.com

Guerrilla RF

1196 Pleasant Ridge Road, Suite 5
Greensboro, NC 27409

Phone: (336) 510-7840

www.guerrilla-rf.com