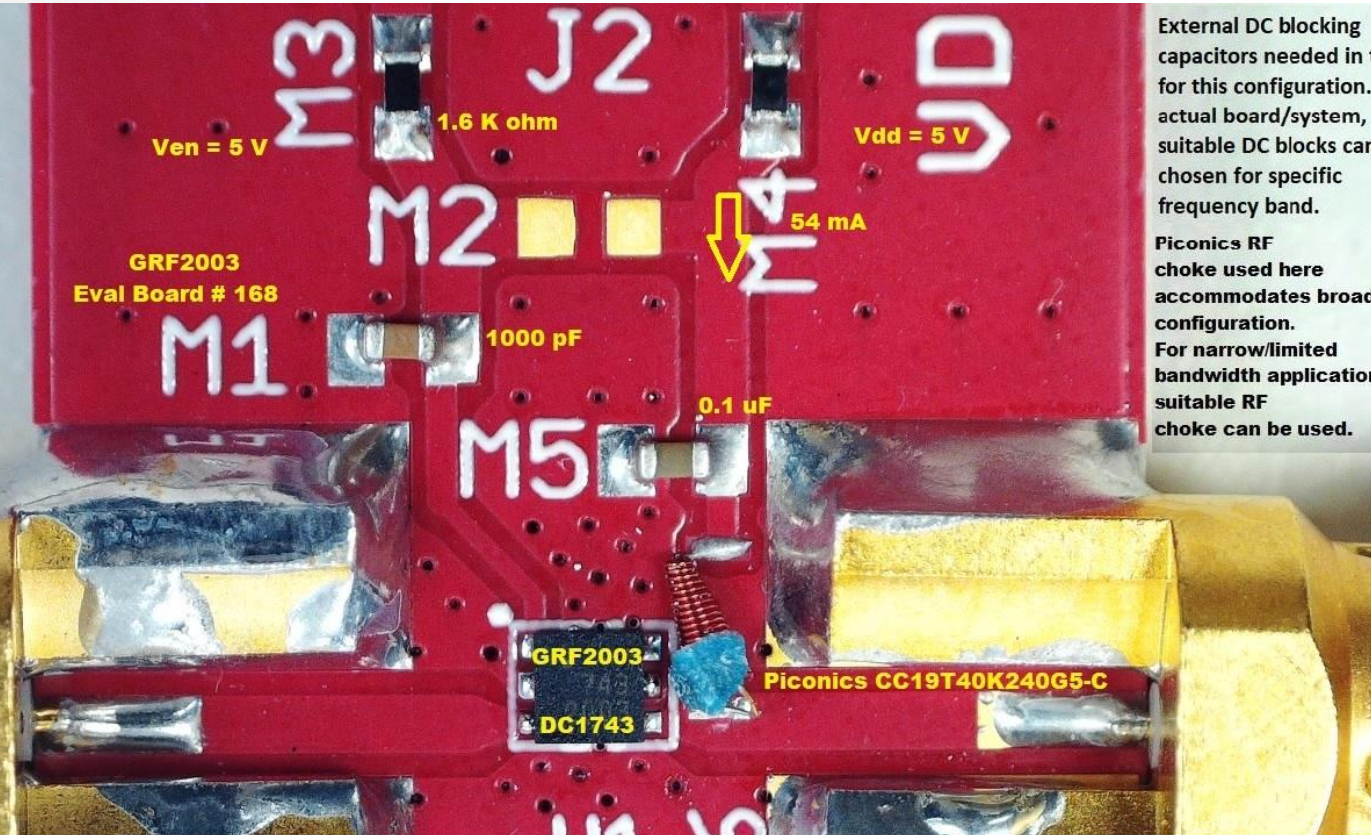




GRF2003 (400 - 6000 MHz)

Evaluation Board # 168

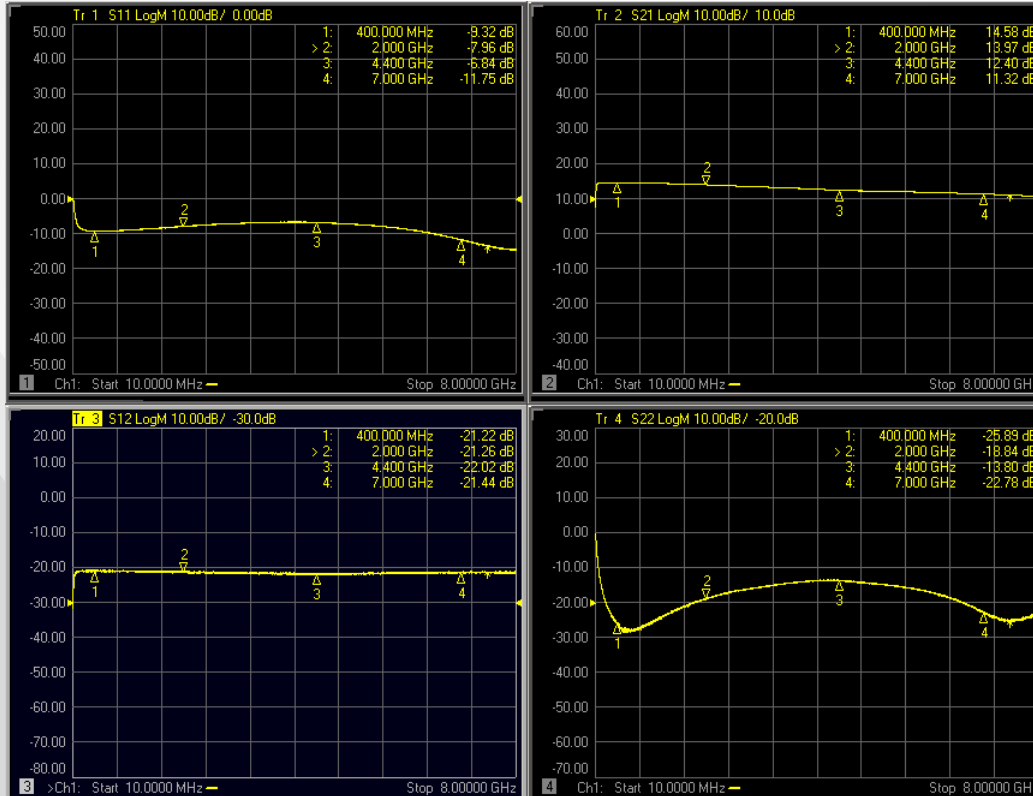
GRF2003 Schematic:



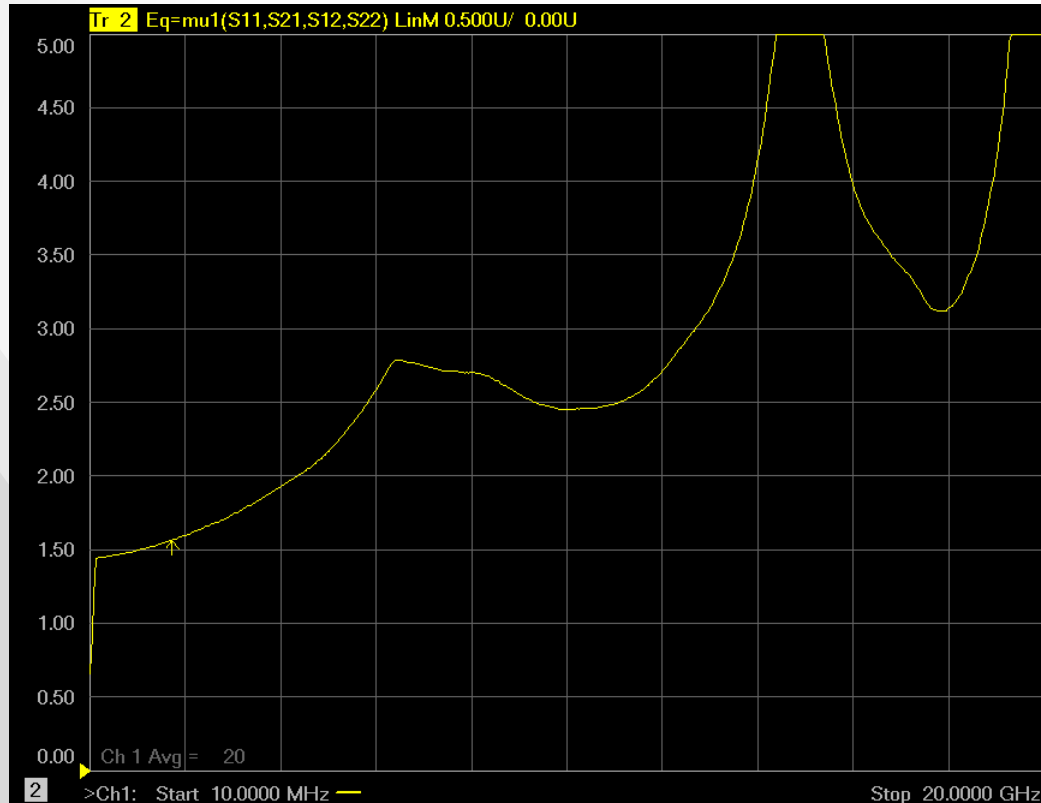
External DC blocking capacitors needed in test set for this configuration. On/in actual board/system, suitable DC blocks can be chosen for specific frequency band.

Piconics RF choke used here accommodates broadband configuration. For narrow/limited bandwidth application, any suitable RF choke can be used.

GRF2003 Response:



GRF2003 Stability Mu Factor:



GRF2003 Data:

| Descriptor | Freq MHz | Vdd | Iddq mA | Ven | Ien mA | Pout/Ptone dBm | Gain dB | IIP3 dBm | OIP3 dBm | IP1dB dBm | OP1dB dBm | NF |
|------------------------------|----------|-----|---------|-----|--------|----------------|---------|----------|----------|-----------|-----------|-----|
| GRF2003_Eval # 168_5V/55mA | 400 | 5.0 | 54.2 | 5.0 | 1.8 | -2.0 | 14.9 | 22.5 | 37.4 | 3.1 | 16.9 | 3.7 |
| GRF2003_Eval # 168_5V/55mA | 1200 | 5.0 | 54.2 | 5.0 | 1.8 | -2.0 | 14.6 | 21.0 | 35.5 | 3.1 | 16.6 | 3.5 |
| GRF2003_Eval # 168_5V/55mA | 2000 | 5.0 | 54.2 | 5.0 | 1.8 | -2.0 | 14.0 | 18.6 | 32.6 | 3.3 | 16.3 | 3.7 |
| GRF2003_Eval # 168_5V/55mA | 2800 | 5.0 | 54.2 | 5.0 | 1.8 | -2.0 | 13.4 | 17.5 | 30.9 | 3.3 | 15.7 | 4.1 |
| GRF2003_Eval # 168_5V/55mA | 3600 | 5.0 | 54.2 | 5.0 | 1.8 | -2.0 | 13.4 | 16.5 | 29.9 | 3.2 | 15.6 | 4.2 |
| GRF2003_Eval # 168_5V/55mA | 4400 | 5.0 | 54.2 | 5.0 | 1.8 | -2.0 | 12.8 | 16.3 | 29.1 | 4.0 | 15.7 | 4.4 |
| GRF2003_Eval # 168_5V/55mA | 5200 | 5.0 | 54.2 | 5.0 | 1.8 | -2.0 | 12.1 | 16.6 | 28.6 | 4.0 | 15.0 | 4.5 |
| GRF2003_Eval # 168_5V/55mA | 6000 | 5.0 | 54.2 | 5.0 | 1.8 | -2.0 | 11.6 | 16.2 | 27.8 | 4.2 | 14.8 | 4.7 |
| Descriptor | Freq MHz | Vdd | Iddq mA | Ven | Ien mA | Pout/Ptone dBm | Gain dB | IIP3 dBm | OIP3 dBm | IP1dB dBm | OP1dB dBm | NF |
| GRF2003_Eval # 168_3.3V/50mA | 400 | 3.3 | 48.5 | 5.0 | 1.8 | -2.0 | 14.9 | 18.4 | 33.3 | 1.5 | 15.4 | x |
| GRF2003_Eval # 168_3.3V/50mA | 1200 | 3.3 | 48.5 | 5.0 | 1.8 | -2.0 | 14.6 | 18.5 | 33.1 | 1.7 | 15.2 | x |
| GRF2003_Eval # 168_3.3V/50mA | 2000 | 3.3 | 48.5 | 5.0 | 1.8 | -2.0 | 14.1 | 17.5 | 31.6 | 2.0 | 15.1 | x |
| GRF2003_Eval # 168_3.3V/50mA | 2800 | 3.3 | 48.5 | 5.0 | 1.8 | -2.0 | 13.5 | 17.1 | 30.6 | 2.1 | 14.5 | x |
| GRF2003_Eval # 168_3.3V/50mA | 3600 | 3.3 | 48.5 | 5.0 | 1.8 | -2.0 | 13.5 | 17.4 | 30.9 | 2.0 | 14.5 | x |
| GRF2003_Eval # 168_3.3V/50mA | 4400 | 3.3 | 48.5 | 5.0 | 1.8 | -2.0 | 12.9 | 17.6 | 30.5 | 2.5 | 14.4 | x |
| GRF2003_Eval # 168_3.3V/50mA | 5200 | 3.3 | 48.5 | 5.0 | 1.8 | -2.0 | 12.2 | 17.8 | 30.0 | 2.5 | 13.7 | x |
| GRF2003_Eval # 168_3.3V/50mA | 6000 | 3.3 | 48.5 | 5.0 | 1.8 | -2.0 | 11.8 | 18.2 | 30.0 | 3.0 | 13.7 | x |



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