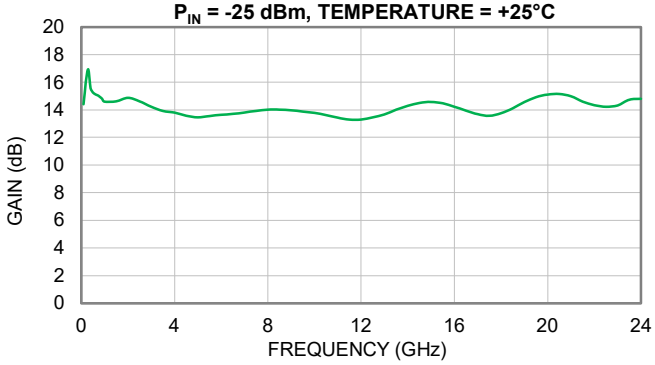
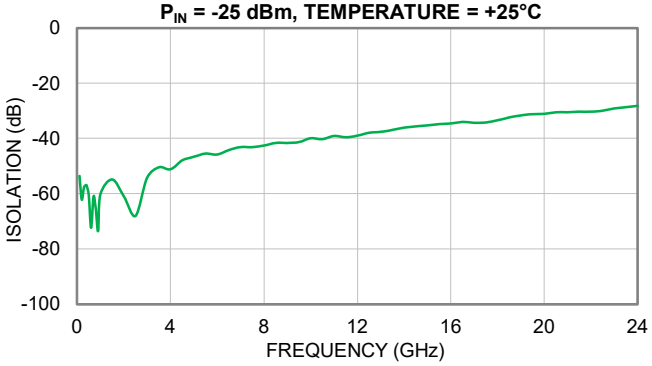
Typical Performance Curves

Note: Data was taken at V_{DD} = +10 V and V_{GG2} = +3.5 V. At +25°C, V_{GG1} has been adjusted to achieve I_{DD} = 300 mA. For over voltage and temperature data, see AVA-223MP+.

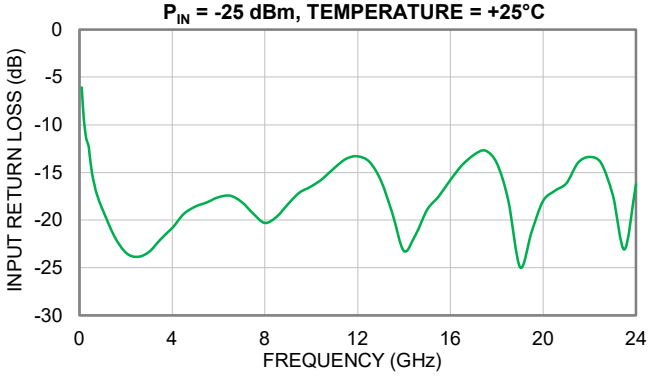
GAIN vs. FREQUENCY
P_{IN} = -25 dBm, TEMPERATURE = +25°C



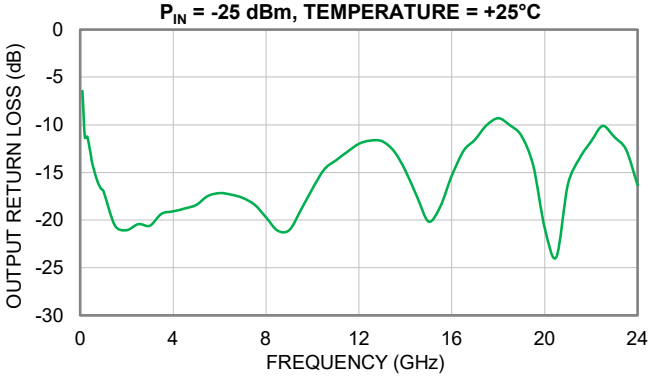
ISOLATION vs. FREQUENCY
P_{IN} = -25 dBm, TEMPERATURE = +25°C



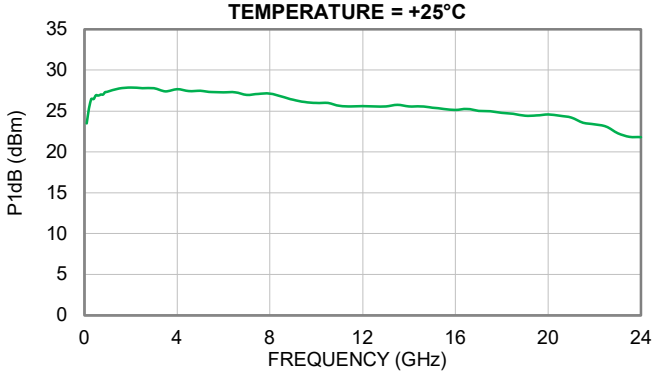
INPUT RETURN LOSS vs. FREQUENCY
P_{IN} = -25 dBm, TEMPERATURE = +25°C



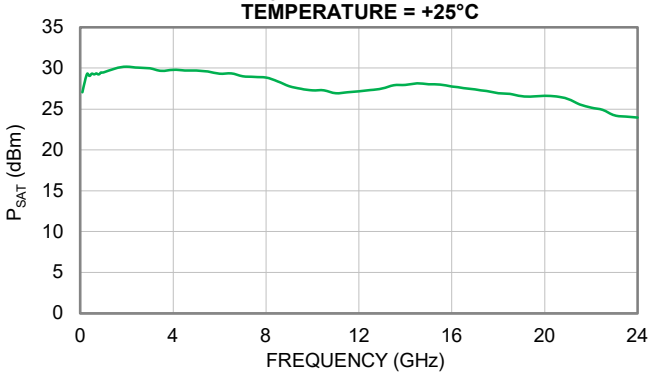
OUTPUT RETURN LOSS vs. FREQUENCY
P_{IN} = -25 dBm, TEMPERATURE = +25°C



P1dB vs. FREQUENCY
TEMPERATURE = +25°C



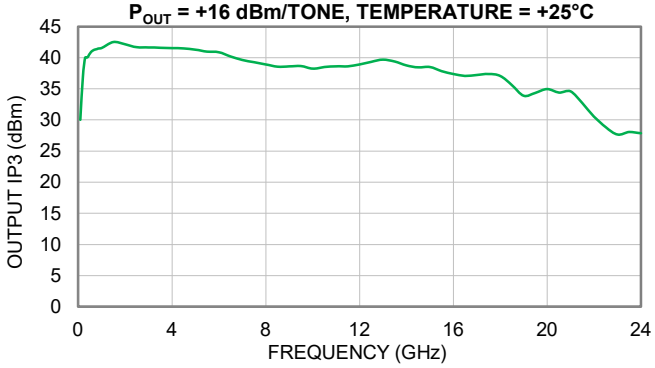
P_{SAT} vs. FREQUENCY
TEMPERATURE = +25°C



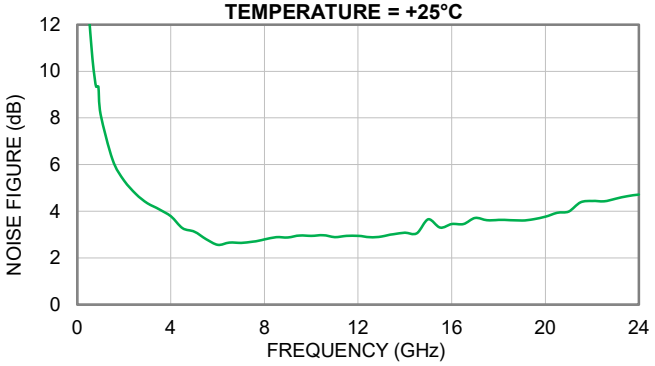
Typical Performance Curves

Note: Data was taken at V_{DD} = +10 V and V_{GG2} = +3.5 V. At +25°C, V_{GG1} has been adjusted to achieve I_{DD} = 300 mA. For over voltage and temperature data, see AVA-223MP+.

OUTPUT IP3 vs. FREQUENCY
P_{OUT} = +16 dBm/TONE, TEMPERATURE = +25°C

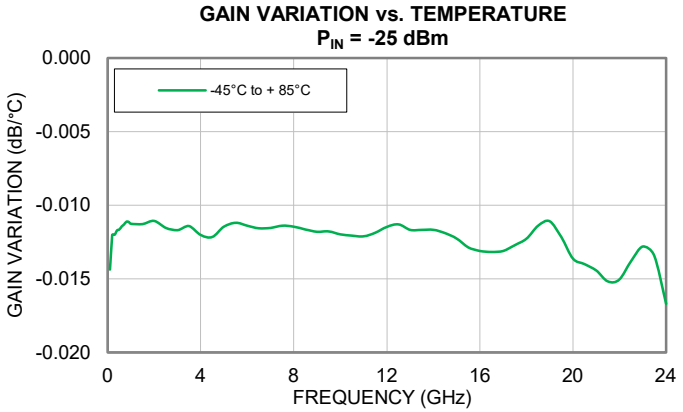


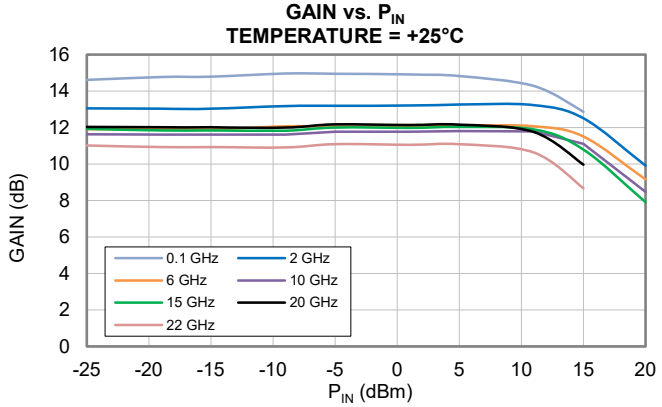
NOISE FIGURE vs. FREQUENCY
TEMPERATURE = +25°C

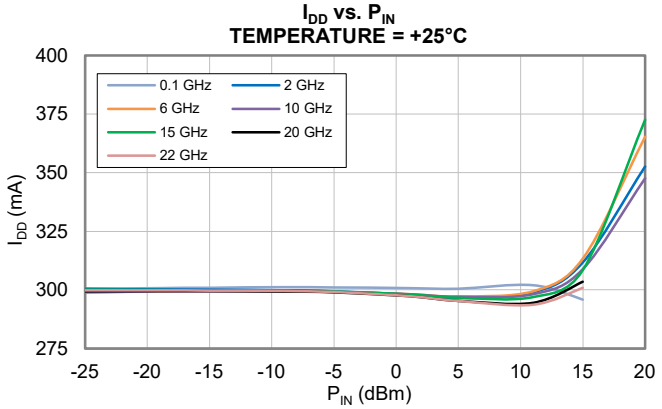


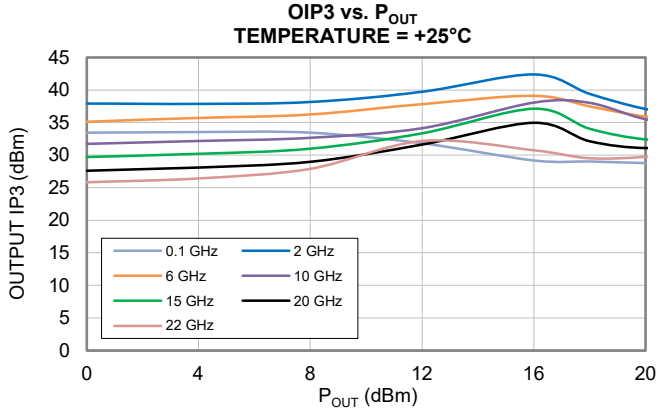
Typical Performance Curves

Note: All data taken in this section represents the Die attached in a 5x5mm 32-Lead QFN-style package and measured on Mini-Circuits Characterization Test Board TB-AVA-223MPC+. Data was taken at V_{DD} = +10 V and V_{GG2} = +3.5 V. At +25°C, V_{GG1} has been adjusted to achieve I_{DD} = 300 mA.





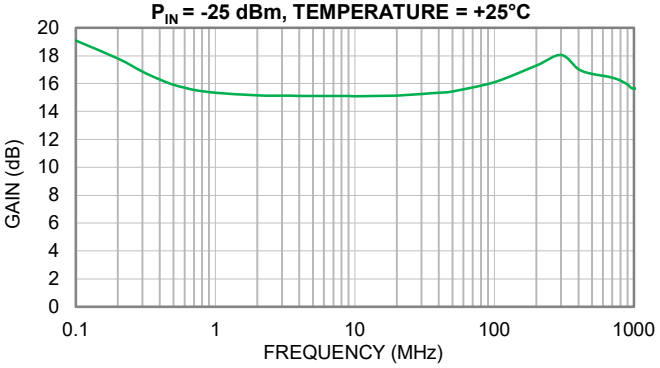




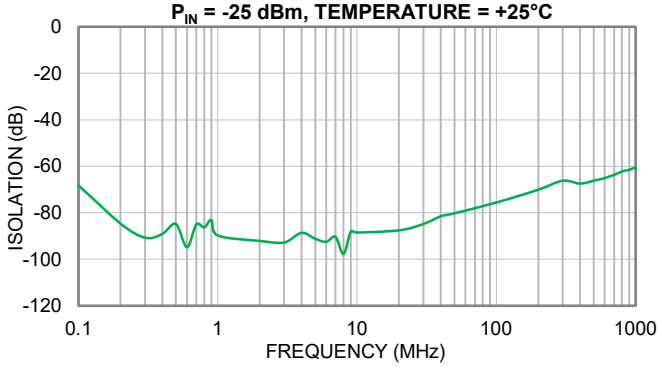
Typical Performance Curves

Note: All data taken in this section represents the die measured on modified Mini-Circuits Die Characterization Test Board using external bias tee (Figure 4). Data was taken at V_{DD} = +10 V and V_{GG2} = +3.5 V. At +25°C, V_{GG1} has been adjusted to achieve I_{DD} = 300 mA.

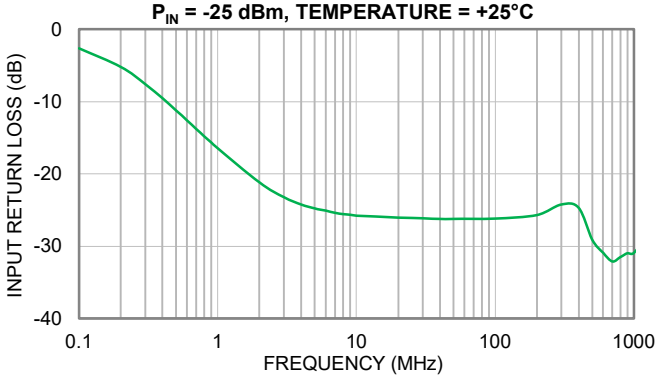
GAIN vs. FREQUENCY
P_{IN} = -25 dBm, TEMPERATURE = +25°C



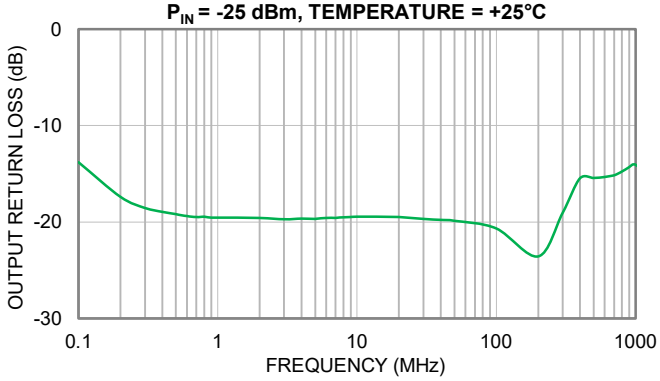
ISOLATION vs. FREQUENCY
P_{IN} = -25 dBm, TEMPERATURE = +25°C



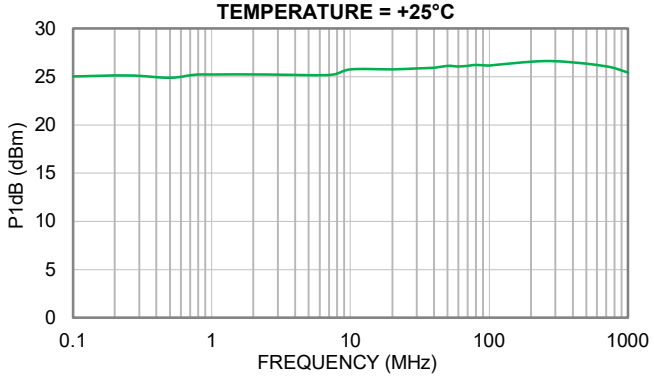
INPUT RETURN LOSS vs. FREQUENCY
P_{IN} = -25 dBm, TEMPERATURE = +25°C



OUTPUT RETURN LOSS vs. FREQUENCY
P_{IN} = -25 dBm, TEMPERATURE = +25°C



P1dB vs. FREQUENCY
TEMPERATURE = +25°C



OUTPUT IP3 vs. FREQUENCY
P_{OUT} = +16 dBm/TONE, TEMPERATURE = +25°C