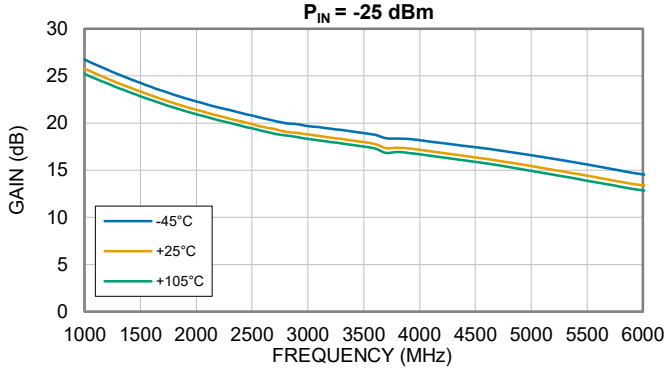
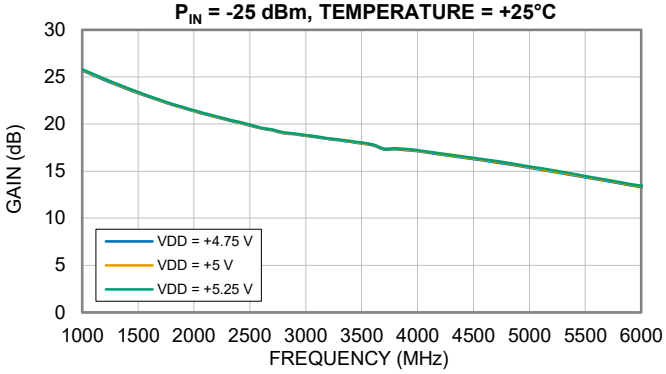
Typical Performance Curves

Note: The following data was taken on the Mini-Circuits Characterization Test Board TB-TSS-63ULNC+ (Figure 2). All data taken at nominal condition of V_{DD} = +5 V and at $V_{SHUTDOWN}$ = 0 V unless noted otherwise.

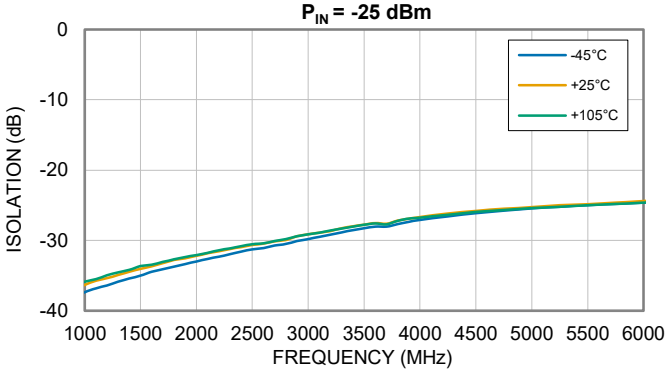
GAIN vs. TEMPERATURE
P_{IN} = -25 dBm



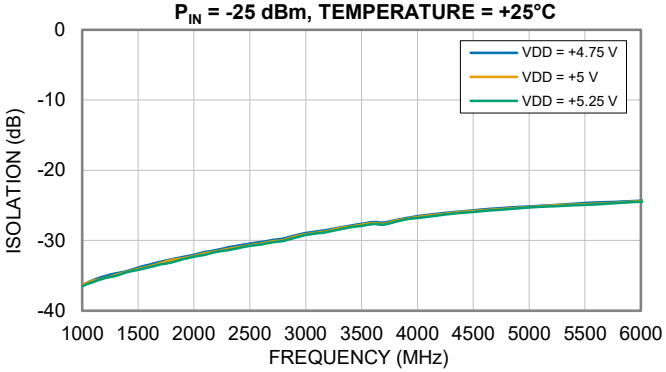
GAIN vs. DEVICE VOLTAGE (V_{DD})
P_{IN} = -25 dBm, TEMPERATURE = +25°C



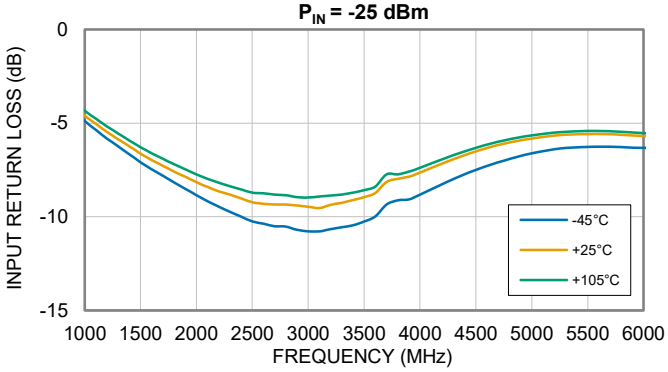
ISOLATION vs. TEMPERATURE
P_{IN} = -25 dBm



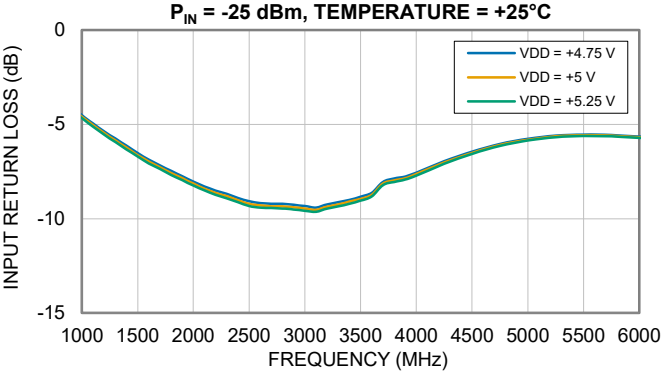
ISOLATION vs. DEVICE VOLTAGE (V_{DD})
P_{IN} = -25 dBm, TEMPERATURE = +25°C



INPUT RETURN LOSS vs. TEMPERATURE
P_{IN} = -25 dBm



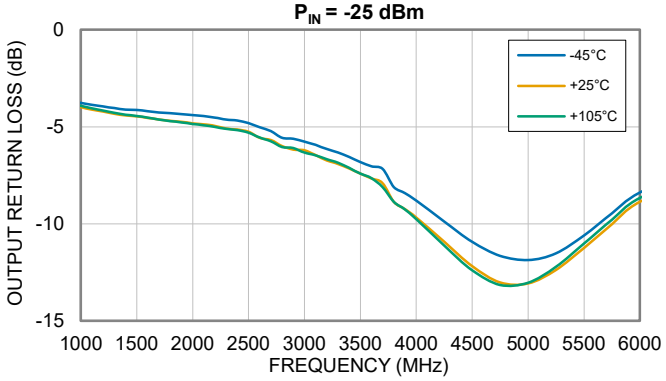
INPUT RETURN LOSS vs. DEVICE VOLTAGE (V_{DD})
P_{IN} = -25 dBm, TEMPERATURE = +25°C



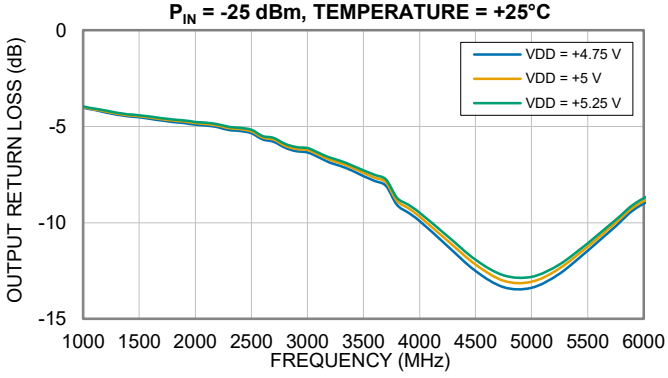
Typical Performance Curves

Note: The following data was taken on the Mini-Circuits Characterization Test Board TB-TSS-63ULNC+ (Figure 2). All data taken at nominal condition of V_{DD} = +5 V and at $V_{SHUTDOWN}$ = 0 V unless noted otherwise.

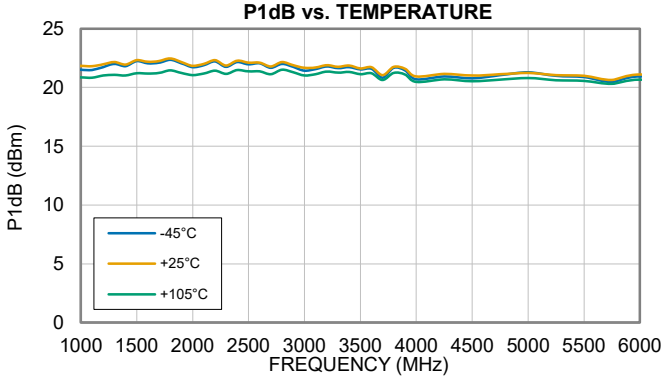
OUTPUT RETURN LOSS vs. TEMPERATURE
P_{IN} = -25 dBm



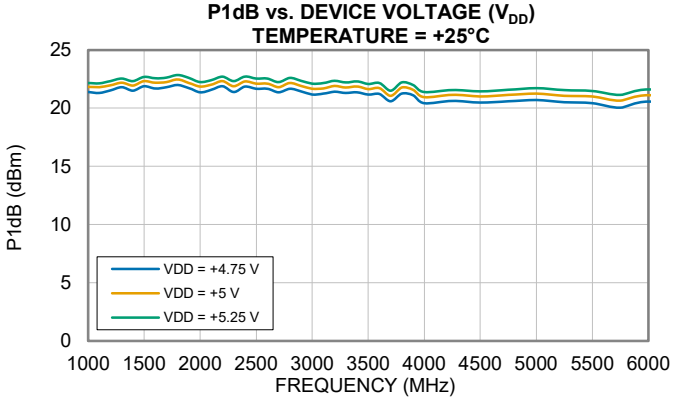
OUTPUT RETURN LOSS vs. DEVICE VOLTAGE (V_{DD})
P_{IN} = -25 dBm, TEMPERATURE = +25°C



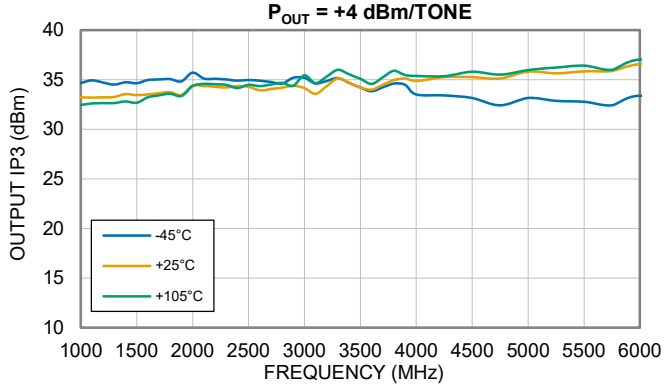
P1dB vs. TEMPERATURE



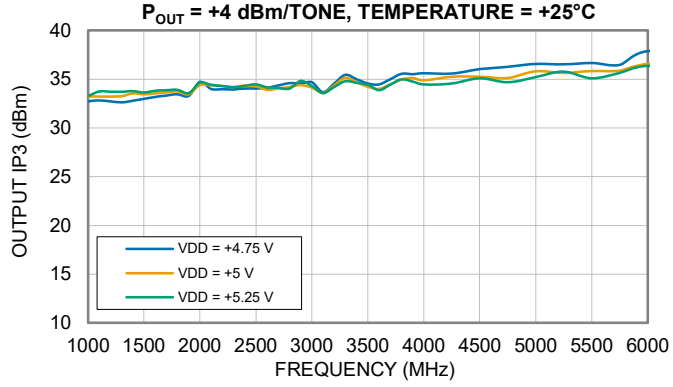
P1dB vs. DEVICE VOLTAGE (V_{DD})
TEMPERATURE = +25°C



OUTPUT IP3 vs. TEMPERATURE
P_{OUT} = +4 dBm/TONE



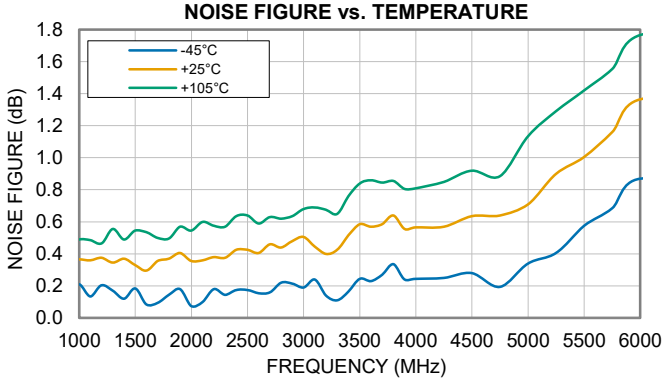
OUTPUT IP3 vs. DEVICE VOLTAGE (V_{DD})
P_{OUT} = +4 dBm/TONE, TEMPERATURE = +25°C



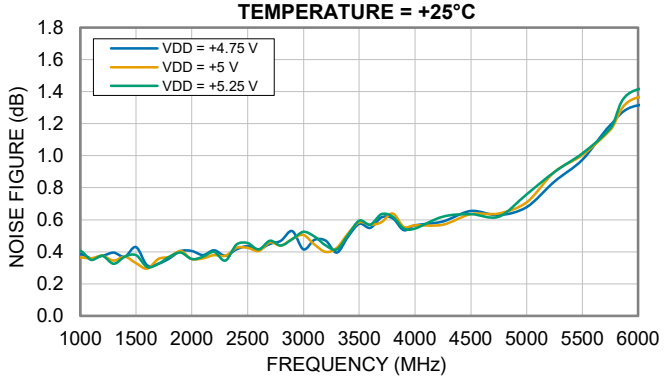
Typical Performance Curves

Note: The following data was taken on the Mini-Circuits Characterization Test Board TB-TSS-63ULNC+ (Figure 2). All data taken at nominal condition of V_{DD} = +5 V and at $V_{SHUTDOWN}$ = 0 V unless noted otherwise.

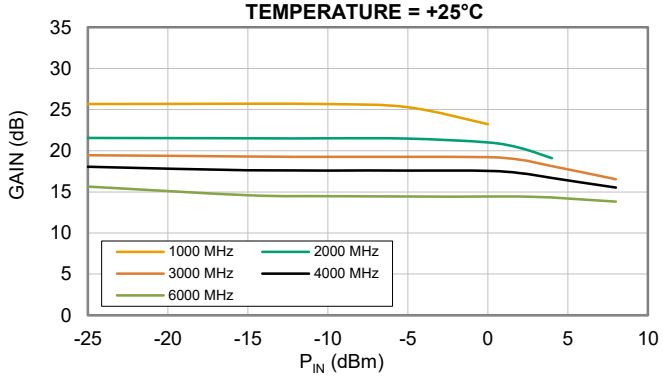
NOISE FIGURE vs. TEMPERATURE



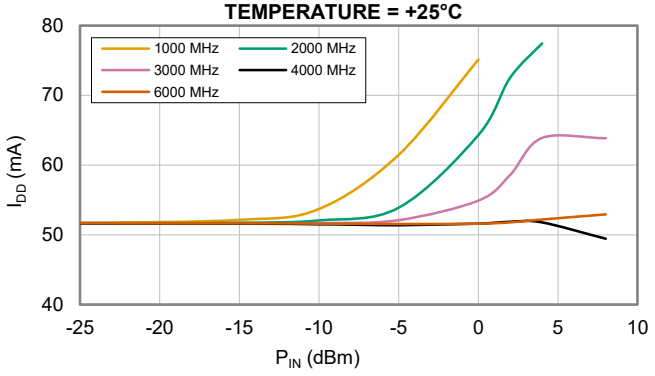
NOISE FIGURE vs. DEVICE VOLTAGE (V_{DD})
TEMPERATURE = +25°C



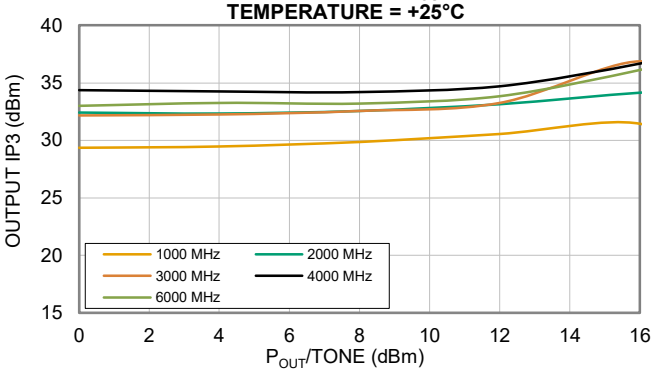
GAIN vs. P_{IN}
TEMPERATURE = +25°C



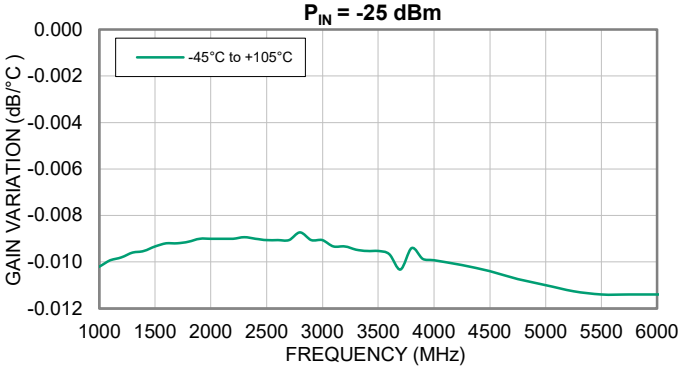
I_{DD} vs. P_{IN}
TEMPERATURE = +25°C



OUTPUT IP3 vs. P_{OUT}
TEMPERATURE = +25°C



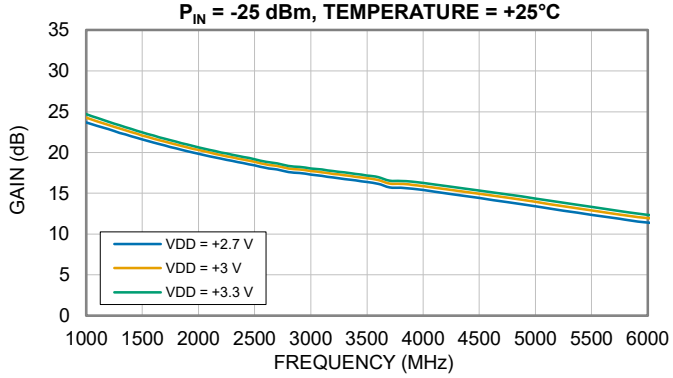
GAIN VARIATION vs. TEMPERATURE
P_{IN} = -25 dBm



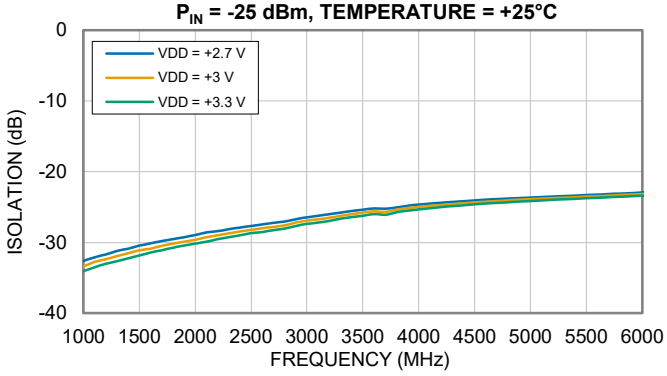
Typical Performance Curves

Note: The following data was taken on the Mini-Circuits Characterization Test Board TB-TSS-63ULNC+ (Figure 2). All data taken at $V_{SHUTDOWN}$ = 0 V unless noted otherwise.

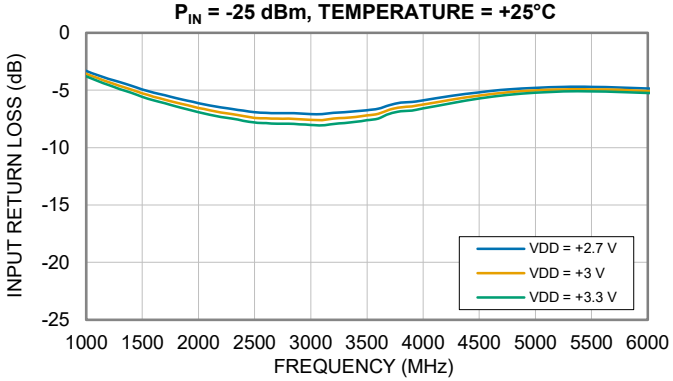
GAIN vs. DEVICE VOLTAGE (V_{DD})
P_{IN} = -25 dBm, TEMPERATURE = +25°C



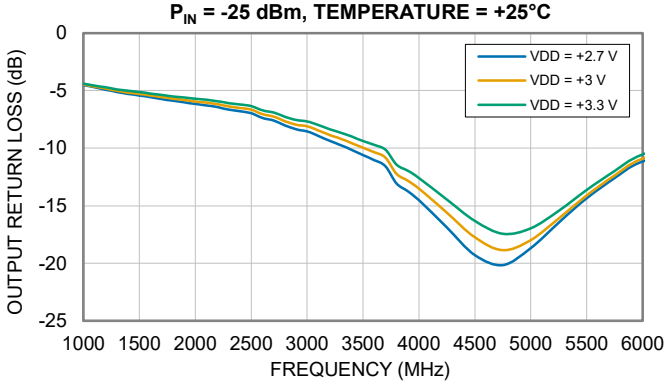
ISOLATION vs. DEVICE VOLTAGE (V_{DD})
P_{IN} = -25 dBm, TEMPERATURE = +25°C



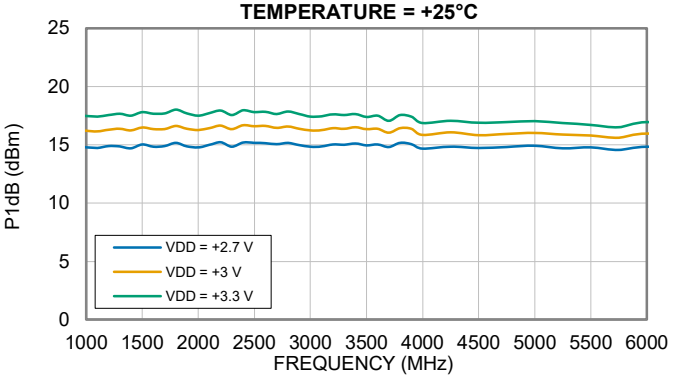
INPUT RETURN LOSS vs. DEVICE VOLTAGE (V_{DD})
P_{IN} = -25 dBm, TEMPERATURE = +25°C



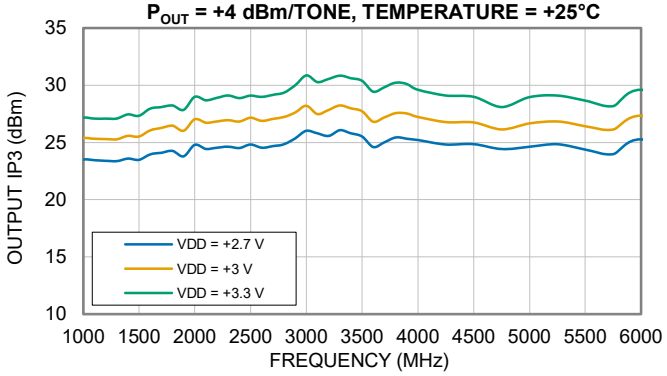
OUTPUT RETURN LOSS vs. DEVICE VOLTAGE (V_{DD})
P_{IN} = -25 dBm, TEMPERATURE = +25°C



P1dB vs. DEVICE VOLTAGE (V_{DD})
TEMPERATURE = +25°C



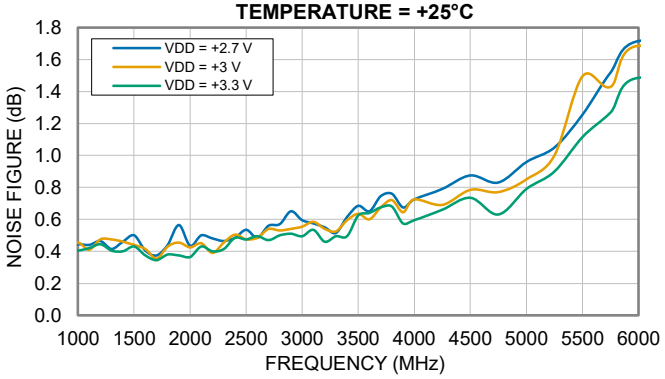
OUTPUT IP3 vs. DEVICE VOLTAGE (V_{DD})
P_{OUT} = +4 dBm/TONE, TEMPERATURE = +25°C



Typical Performance Curves

Note: The following data was taken on the Mini-Circuits Characterization Test Board TB-TSS-63ULNC+ (Figure 2). All data taken at $V_{SHUTDOWN}$ = 0 V unless noted otherwise.

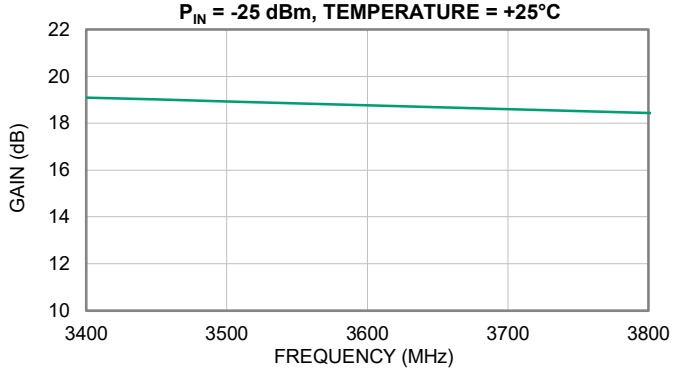
NOISE FIGURE vs. DEVICE VOLTAGE (V_{DD})
TEMPERATURE = +25°C



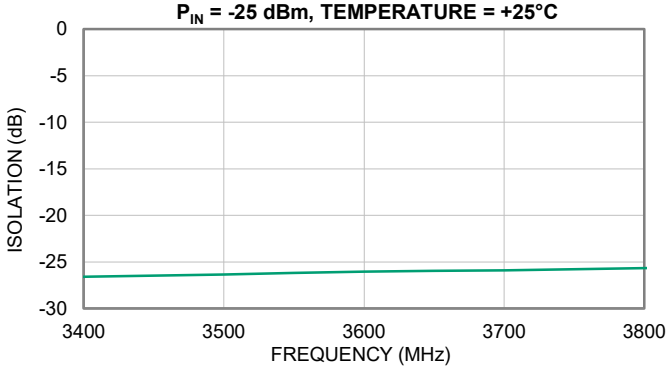
Typical Performance Curves

Note: The following data was taken on the Mini-Circuits 3400-3800 MHz Matched Characterization Test Board (Figure 3). All data taken at nominal condition of V_{DD} = +5 V and at $V_{SHUTDOWN}$ = 0 V.

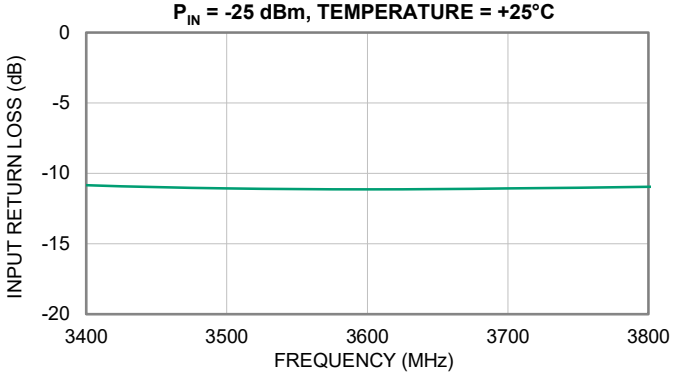
GAIN vs. FREQUENCY
P_{IN} = -25 dBm, TEMPERATURE = +25°C



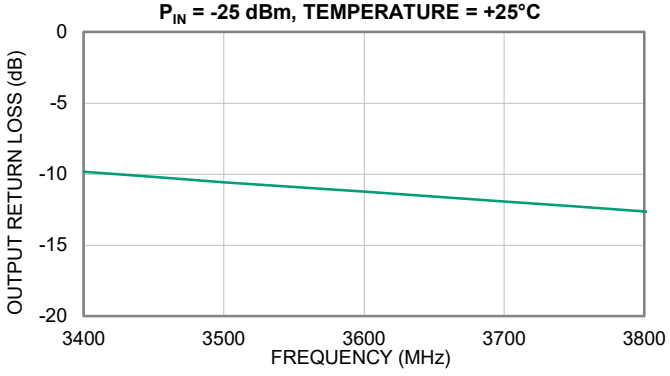
ISOLATION vs. FREQUENCY
P_{IN} = -25 dBm, TEMPERATURE = +25°C



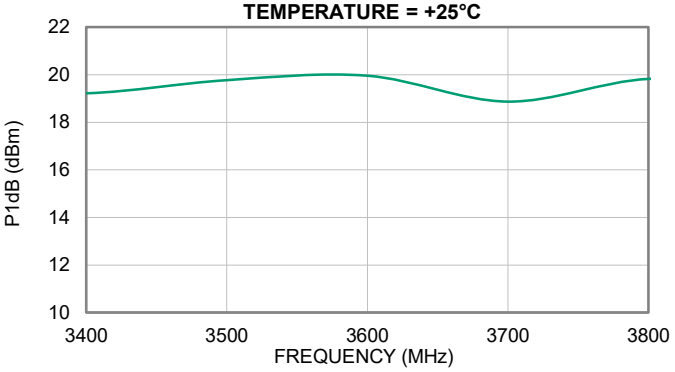
INPUT RETURN LOSS vs. FREQUENCY
P_{IN} = -25 dBm, TEMPERATURE = +25°C



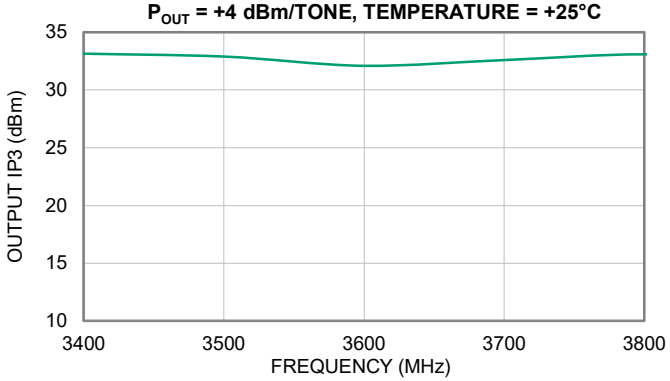
OUTPUT RETURN LOSS vs. FREQUENCY
P_{IN} = -25 dBm, TEMPERATURE = +25°C



P1dB vs. FREQUENCY
TEMPERATURE = +25°C



OUTPUT IP3 vs. FREQUENCY
P_{OUT} = +4 dBm/TONE, TEMPERATURE = +25°C



Typical Performance Curves

Note: The following data was taken on the Mini-Circuits 3400-3800 MHz Matched Characterization Test Board (Figure 3). All data taken at nominal condition of V_{DD} = +5 V and at $V_{SHUTDOWN}$ = 0 V.