

## Typical Performance Data

**NOTE: Use PDF Bookmarks to view DATA at required conditions  
or to view GRAPHS.**

**Definitions:**

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: Icc = 16mA, Vd = 3.49V @Temperature = +25degC

| FREQ  | Gain  | Isolation | Input Return Loss | Output Return Loss | Stability |       | FREQ  | IP3 Output | 1dB Comp. Output | Noise Figure |
|-------|-------|-----------|-------------------|--------------------|-----------|-------|-------|------------|------------------|--------------|
| (MHz) | (dB)  | (dB)      | (dB)              | (dB)               | K         | Delta | (MHz) | (dBm)      | (dBm)            | (dB)         |
| 50    | 21.88 | 24.76     | 34.31             | 50.41              | 1.06      | 0.72  | 50    | 18.85      | 3.44             | 2.05         |
| 100   | 22.30 | 24.54     | 33.71             | 30.10              | 1.03      | 0.77  | 100   | 18.65      | 3.71             | 2.26         |
| 200   | 21.93 | 24.54     | 32.51             | 27.52              | 1.04      | 0.74  | 150   | 19.48      | 3.63             | 2.14         |
| 400   | 21.62 | 24.66     | 30.01             | 21.61              | 1.05      | 0.70  | 200   | 18.28      | 3.46             | 1.99         |
| 600   | 21.48 | 24.40     | 25.93             | 18.24              | 1.04      | 0.71  | 250   | 17.52      | 3.40             | 2.13         |
| 800   | 21.10 | 24.52     | 23.56             | 16.03              | 1.05      | 0.67  | 300   | 18.23      | 3.02             | 2.43         |
| 1000  | 20.58 | 24.11     | 21.69             | 14.57              | 1.04      | 0.65  | 350   | 18.25      | 3.69             | 2.16         |
| 1200  | 19.84 | 24.06     | 20.21             | 13.61              | 1.06      | 0.60  | 400   | 17.42      | 2.60             | 2.19         |
| 1400  | 19.45 | 23.63     | 18.43             | 12.86              | 1.04      | 0.59  | 450   | 17.49      | 3.32             | 2.14         |
| 1600  | 18.93 | 23.60     | 17.43             | 12.32              | 1.06      | 0.56  | 500   | 17.00      | 3.54             | 2.26         |
| 1800  | 18.46 | 23.08     | 16.31             | 11.86              | 1.04      | 0.56  | 550   | 16.91      | 3.39             | 2.33         |
| 2000  | 17.85 | 22.88     | 16.14             | 11.56              | 1.06      | 0.53  | 600   | 16.83      | 2.79             | 2.19         |
| 2200  | 17.34 | 22.66     | 15.26             | 11.50              | 1.06      | 0.50  | 650   | 17.04      | 2.96             | 2.17         |
| 2400  | 17.03 | 22.24     | 14.45             | 11.35              | 1.04      | 0.51  | 700   | 16.84      | 2.68             | 2.20         |
| 2600  | 16.54 | 21.91     | 14.56             | 11.42              | 1.06      | 0.50  | 750   | 16.82      | 3.36             | 2.23         |
| 2800  | 16.13 | 21.77     | 14.01             | 11.42              | 1.07      | 0.48  | 800   | 17.15      | 3.20             | 2.25         |
| 3000  | 15.92 | 21.41     | 13.31             | 11.41              | 1.05      | 0.48  | 850   | 16.46      | 2.90             | 2.17         |
| 3200  | 15.61 | 21.38     | 12.97             | 11.65              | 1.07      | 0.46  | 900   | 16.74      | 3.38             | 2.25         |
| 3400  | 15.35 | 20.96     | 12.44             | 11.67              | 1.05      | 0.47  | 950   | 16.79      | 2.79             | 2.32         |
| 3600  | 15.07 | 20.71     | 12.60             | 11.78              | 1.06      | 0.47  | 1000  | 17.02      | 2.96             | 2.21         |
| 3800  | 14.88 | 20.65     | 12.26             | 11.95              | 1.06      | 0.46  | 1100  | 16.57      | 2.87             | 2.18         |
| 4000  | 14.62 | 20.26     | 12.32             | 11.94              | 1.05      | 0.47  | 1200  | 16.86      | 2.45             | 2.26         |
| 4200  | 14.43 | 20.12     | 11.95             | 11.89              | 1.05      | 0.47  | 1300  | 16.75      | 2.32             | 2.21         |
| 4400  | 14.32 | 19.85     | 11.71             | 11.75              | 1.04      | 0.48  | 1400  | 16.73      | 2.83             | 2.36         |
| 4600  | 14.09 | 19.74     | 11.76             | 11.47              | 1.05      | 0.48  | 1500  | 16.70      | 2.71             | 2.36         |
| 4800  | 14.01 | 19.44     | 11.45             | 10.99              | 1.02      | 0.50  | 1600  | 16.98      | 2.52             | 2.37         |
| 5000  | 13.82 | 19.37     | 11.30             | 10.51              | 1.03      | 0.50  | 1700  | 17.39      | 2.58             | 2.24         |
| 5500  | 13.50 | 19.21     | 10.62             | 8.69               | 1.02      | 0.53  | 1800  | 17.09      | 2.53             | 2.41         |
| 6000  | 12.92 | 19.03     | 8.93              | 6.89               | 0.98      | 0.55  | 1900  | 16.99      | 2.51             | 2.23         |
| 6500  | 12.02 | 19.22     | 7.26              | 5.53               | 0.98      | 0.57  | 2000  | 16.81      | 2.58             | 2.24         |
| 7000  | 10.74 | 19.89     | 5.93              | 4.50               | 1.03      | 0.58  | 2100  | 16.73      | 2.25             | 2.29         |
| 7500  | 8.95  | 20.33     | 5.14              | 4.15               | 1.16      | 0.56  | 2200  | 17.40      | 2.46             | 2.24         |
| 8000  | 7.08  | 20.20     | 4.77              | 4.05               | 1.31      | 0.55  | 2300  | 17.66      | 2.62             | 2.29         |
| 9000  | 3.43  | 18.75     | 4.34              | 4.02               | 1.52      | 0.54  | 2400  | 18.11      | 2.70             | 2.32         |
| 10000 | 0.84  | 15.80     | 4.19              | 4.20               | 1.46      | 0.53  | 2500  | 17.32      | 2.93             | 2.25         |
| 11000 | -0.38 | 12.28     | 4.71              | 4.89               | 1.30      | 0.52  | 2600  | 17.14      | 2.84             | 2.32         |
| 12000 | -0.76 | 9.06      | 5.37              | 6.11               | 1.16      | 0.53  | 2700  | 17.08      | 2.95             | 2.30         |
| 13000 | -1.03 | 6.02      | 6.24              | 7.57               | 1.07      | 0.60  | 2800  | 16.98      | 2.77             | 2.28         |
| 14000 | -2.53 | 5.17      | 4.98              | 5.46               | 1.04      | 0.68  | 2900  | 16.74      | 2.90             | 2.28         |
| 15000 | -5.14 | 6.35      | 3.50              | 3.55               | 1.09      | 0.68  | 3000  | 17.29      | 2.88             | 2.11         |

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## Typical Performance Data

### Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: Icc = 13mA, Vd = 3.47V @Temperature = +25degC

| FREQ  | Gain  | Isolation | Input Return Loss | Output Return Loss | Stability |       | FREQ  | IP3 Output | 1dB Comp. Output | Noise Figure |
|-------|-------|-----------|-------------------|--------------------|-----------|-------|-------|------------|------------------|--------------|
|       |       |           |                   |                    | K         | Delta |       |            |                  |              |
| (MHz) | (dB)  | (dB)      | (dB)              | (dB)               | K         | Delta | (MHz) | (dBm)      | (dBm)            | (dB)         |
| 50    | 20.43 | 23.35     | 17.05             | 16.46              | 1.05      | 0.74  | 50    | 17.08      | 0.44             | 2.12         |
| 100   | 20.33 | 23.54     | 18.73             | 16.33              | 1.06      | 0.71  | 100   | 16.50      | 0.30             | 2.20         |
| 200   | 20.10 | 23.38     | 18.77             | 16.27              | 1.06      | 0.70  | 150   | 17.02      | 0.20             | 2.19         |
| 400   | 20.26 | 23.25     | 17.26             | 16.36              | 1.04      | 0.72  | 200   | 15.68      | 0.03             | 2.19         |
| 600   | 19.76 | 23.33     | 16.52             | 15.87              | 1.05      | 0.66  | 250   | 15.40      | 0.89             | 2.23         |
| 800   | 19.78 | 22.98     | 16.26             | 14.37              | 1.02      | 0.68  | 300   | 15.68      | 0.34             | 2.35         |
| 1000  | 19.01 | 23.10     | 16.12             | 13.30              | 1.04      | 0.61  | 350   | 16.25      | 0.66             | 2.21         |
| 1200  | 18.75 | 22.63     | 15.18             | 12.73              | 1.01      | 0.61  | 400   | 15.29      | 0.37             | 2.35         |
| 1400  | 18.16 | 22.57     | 13.78             | 12.50              | 1.01      | 0.56  | 450   | 15.39      | 0.97             | 2.24         |
| 1600  | 17.97 | 22.05     | 13.73             | 11.95              | 0.98      | 0.58  | 500   | 14.78      | 0.03             | 2.20         |
| 1800  | 17.29 | 22.04     | 13.35             | 11.53              | 1.00      | 0.52  | 550   | 14.39      | 0.21             | 2.33         |
| 2000  | 16.92 | 21.67     | 13.18             | 11.16              | 0.99      | 0.52  | 600   | 14.33      | 0.08             | 2.34         |
| 2200  | 16.57 | 21.36     | 12.25             | 11.14              | 0.97      | 0.51  | 650   | 14.58      | 0.09             | 2.28         |
| 2400  | 16.07 | 21.33     | 11.60             | 11.06              | 0.99      | 0.47  | 700   | 14.22      | 0.81             | 2.18         |
| 2600  | 15.62 | 21.13     | 11.76             | 10.89              | 1.00      | 0.46  | 750   | 14.14      | 0.36             | 2.26         |
| 2800  | 15.49 | 20.74     | 11.02             | 10.96              | 0.97      | 0.47  | 800   | 14.14      | 0.07             | 2.40         |
| 3000  | 15.10 | 20.62     | 10.46             | 11.02              | 0.97      | 0.45  | 850   | 14.02      | 0.11             | 2.29         |
| 3200  | 15.00 | 20.20     | 10.54             | 11.16              | 0.96      | 0.47  | 900   | 14.21      | 0.24             | 2.23         |
| 3400  | 14.61 | 20.15     | 10.41             | 11.14              | 0.97      | 0.45  | 950   | 13.63      | 0.71             | 2.34         |
| 3600  | 14.46 | 19.76     | 10.45             | 11.12              | 0.96      | 0.46  | 1000  | 13.95      | 0.57             | 2.31         |
| 3800  | 14.32 | 19.59     | 9.99              | 11.49              | 0.95      | 0.46  | 1100  | 14.18      | 1.16             | 2.18         |
| 4000  | 14.04 | 19.50     | 10.16             | 11.42              | 0.97      | 0.45  | 1200  | 14.14      | 0.87             | 2.37         |
| 4200  | 13.99 | 19.10     | 9.71              | 11.62              | 0.94      | 0.47  | 1300  | 14.19      | 0.41             | 2.21         |
| 4400  | 13.79 | 19.10     | 9.68              | 11.61              | 0.96      | 0.46  | 1400  | 13.67      | 0.82             | 2.44         |
| 4600  | 13.71 | 18.75     | 9.55              | 11.41              | 0.93      | 0.48  | 1500  | 14.01      | 1.05             | 2.38         |
| 4800  | 13.55 | 18.69     | 9.66              | 11.09              | 0.94      | 0.48  | 1600  | 14.26      | 0.95             | 2.44         |
| 5000  | 13.53 | 18.39     | 9.28              | 10.67              | 0.91      | 0.50  | 1700  | 14.28      | 0.70             | 2.29         |
| 5500  | 13.22 | 18.13     | 9.28              | 9.28               | 0.91      | 0.52  | 1800  | 14.16      | 0.86             | 2.46         |
| 6000  | 12.66 | 18.12     | 8.01              | 7.36               | 0.89      | 0.54  | 1900  | 14.01      | 0.70             | 2.31         |
| 6500  | 11.80 | 18.39     | 6.56              | 5.81               | 0.87      | 0.55  | 2000  | 14.22      | 0.87             | 2.26         |
| 7000  | 10.57 | 18.68     | 5.60              | 4.82               | 0.90      | 0.56  | 2100  | 13.72      | 1.02             | 2.38         |
| 7500  | 8.80  | 19.45     | 4.95              | 4.53               | 1.06      | 0.54  | 2200  | 14.22      | 0.31             | 2.24         |
| 8000  | 6.95  | 19.56     | 4.69              | 4.35               | 1.22      | 0.53  | 2300  | 14.98      | 0.31             | 2.39         |
| 9000  | 3.25  | 18.73     | 4.35              | 4.40               | 1.56      | 0.50  | 2400  | 15.52      | 0.15             | 2.28         |
| 10000 | 0.63  | 15.95     | 4.23              | 4.48               | 1.52      | 0.50  | 2500  | 14.88      | 0.32             | 2.34         |
| 11000 | -0.61 | 12.46     | 4.70              | 5.09               | 1.33      | 0.49  | 2600  | 14.64      | 0.42             | 2.31         |
| 12000 | -0.95 | 9.31      | 5.28              | 6.33               | 1.18      | 0.50  | 2700  | 14.42      | 0.18             | 2.38         |
| 13000 | -1.23 | 6.12      | 6.08              | 7.66               | 1.07      | 0.58  | 2800  | 14.44      | 0.49             | 2.24         |
| 14000 | -2.65 | 5.20      | 4.91              | 5.50               | 1.04      | 0.67  | 2900  | 14.42      | 0.51             | 2.37         |
| 15000 | -5.24 | 6.37      | 3.47              | 3.57               | 1.09      | 0.68  | 3000  | 14.81      | 0.71             | 2.05         |

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## Typical Performance Data

### Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: Icc = 19mA, Vd = 3.51V @Temperature = +25degC

| FREQ  | Gain  | Isolation | Input Return Loss | Output Return Loss | Stability |       | FREQ  | IP3 Output | 1dB Comp. Output | Noise Figure |
|-------|-------|-----------|-------------------|--------------------|-----------|-------|-------|------------|------------------|--------------|
|       |       |           |                   |                    | K         | Delta |       |            |                  |              |
| (MHz) | (dB)  | (dB)      | (dB)              | (dB)               | K         | Delta | (MHz) | (dBm)      | (dBm)            | (dB)         |
| 50    | 23.27 | 25.98     | 20.41             | 19.32              | 1.05      | 0.74  | 50    | 20.66      | 6.21             | 2.02         |
| 100   | 23.06 | 25.40     | 18.99             | 17.25              | 1.03      | 0.78  | 100   | 20.28      | 5.99             | 2.34         |
| 200   | 23.10 | 25.56     | 18.36             | 19.09              | 1.04      | 0.77  | 150   | 21.08      | 5.93             | 2.12         |
| 400   | 22.86 | 25.58     | 20.20             | 17.86              | 1.04      | 0.74  | 200   | 20.06      | 5.85             | 1.92         |
| 600   | 22.23 | 25.36     | 19.73             | 15.54              | 1.05      | 0.71  | 250   | 19.59      | 5.74             | 2.09         |
| 800   | 21.73 | 25.41     | 21.03             | 14.33              | 1.06      | 0.66  | 300   | 20.00      | 5.42             | 2.46         |
| 1000  | 21.16 | 25.02     | 20.36             | 13.21              | 1.06      | 0.65  | 350   | 20.35      | 6.10             | 2.16         |
| 1200  | 20.72 | 24.84     | 20.27             | 12.76              | 1.07      | 0.62  | 400   | 19.33      | 5.58             | 2.08         |
| 1400  | 20.02 | 24.42     | 19.47             | 12.04              | 1.07      | 0.60  | 450   | 19.27      | 5.65             | 2.08         |
| 1600  | 19.42 | 24.31     | 18.83             | 11.83              | 1.09      | 0.57  | 500   | 19.26      | 5.75             | 2.30         |
| 1800  | 18.86 | 23.84     | 18.13             | 11.43              | 1.09      | 0.56  | 550   | 18.85      | 5.62             | 2.32         |
| 2000  | 18.43 | 23.56     | 17.70             | 11.30              | 1.09      | 0.55  | 600   | 19.05      | 5.62             | 2.09         |
| 2200  | 17.90 | 23.31     | 17.06             | 11.29              | 1.10      | 0.52  | 650   | 19.22      | 5.79             | 2.13         |
| 2400  | 17.42 | 22.82     | 16.59             | 11.16              | 1.09      | 0.52  | 700   | 18.97      | 5.64             | 2.24         |
| 2600  | 17.06 | 22.53     | 16.34             | 11.28              | 1.10      | 0.52  | 750   | 19.03      | 5.64             | 2.28         |
| 2800  | 16.67 | 22.31     | 15.51             | 11.34              | 1.10      | 0.50  | 800   | 19.27      | 5.66             | 2.18         |
| 3000  | 16.26 | 21.92     | 15.00             | 11.34              | 1.09      | 0.50  | 850   | 18.83      | 5.48             | 2.10         |
| 3200  | 15.95 | 21.74     | 14.77             | 11.67              | 1.10      | 0.48  | 900   | 19.27      | 5.82             | 2.27         |
| 3400  | 15.61 | 21.41     | 14.60             | 11.64              | 1.10      | 0.49  | 950   | 18.89      | 4.99             | 2.35         |
| 3600  | 15.43 | 21.13     | 14.32             | 11.78              | 1.09      | 0.49  | 1000  | 19.28      | 5.25             | 2.13         |
| 3800  | 15.10 | 21.02     | 13.89             | 11.93              | 1.11      | 0.48  | 1100  | 19.23      | 4.87             | 2.19         |
| 4000  | 14.96 | 20.71     | 14.06             | 11.87              | 1.10      | 0.49  | 1200  | 19.32      | 4.72             | 2.20         |
| 4200  | 14.73 | 20.54     | 13.51             | 11.82              | 1.10      | 0.48  | 1300  | 19.23      | 5.05             | 2.20         |
| 4400  | 14.55 | 20.23     | 13.64             | 11.55              | 1.09      | 0.50  | 1400  | 19.12      | 5.02             | 2.31         |
| 4600  | 14.40 | 20.12     | 13.18             | 11.27              | 1.09      | 0.50  | 1500  | 19.07      | 4.83             | 2.35         |
| 4800  | 14.18 | 19.90     | 13.09             | 10.70              | 1.08      | 0.51  | 1600  | 19.32      | 4.91             | 2.37         |
| 5000  | 14.10 | 19.78     | 12.40             | 10.18              | 1.07      | 0.51  | 1700  | 19.78      | 4.90             | 2.20         |
| 5500  | 13.68 | 19.64     | 11.34             | 8.46               | 1.06      | 0.53  | 1800  | 19.58      | 4.88             | 2.38         |
| 6000  | 13.09 | 19.56     | 9.47              | 6.66               | 1.04      | 0.56  | 1900  | 19.47      | 4.86             | 2.20         |
| 6500  | 12.11 | 19.80     | 7.53              | 5.23               | 1.03      | 0.57  | 2000  | 19.34      | 4.69             | 2.23         |
| 7000  | 10.82 | 20.39     | 6.07              | 4.31               | 1.09      | 0.58  | 2100  | 18.89      | 4.84             | 2.27         |
| 7500  | 9.08  | 20.67     | 5.20              | 3.96               | 1.20      | 0.58  | 2200  | 19.63      | 5.12             | 2.26         |
| 8000  | 7.21  | 20.38     | 4.82              | 3.86               | 1.32      | 0.57  | 2300  | 19.96      | 5.30             | 2.26         |
| 9000  | 3.53  | 18.77     | 4.31              | 3.85               | 1.51      | 0.55  | 2400  | 19.95      | 5.33             | 2.31         |
| 10000 | 0.91  | 15.70     | 4.16              | 4.00               | 1.44      | 0.55  | 2500  | 19.35      | 5.37             | 2.21         |
| 11000 | -0.28 | 12.17     | 4.67              | 4.69               | 1.28      | 0.54  | 2600  | 19.17      | 5.44             | 2.35         |
| 12000 | -0.63 | 8.94      | 5.37              | 5.97               | 1.15      | 0.55  | 2700  | 19.01      | 5.34             | 2.28         |
| 13000 | -0.93 | 5.94      | 6.31              | 7.44               | 1.06      | 0.61  | 2800  | 18.96      | 5.26             | 2.31         |
| 14000 | -2.47 | 5.13      | 5.01              | 5.43               | 1.04      | 0.68  | 2900  | 18.64      | 5.23             | 2.27         |
| 15000 | -5.06 | 6.36      | 3.51              | 3.55               | 1.09      | 0.69  | 3000  | 18.97      | 5.10             | 2.15         |

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## Typical Performance Data

### Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: Icc = 16mA, Vd = 3.81V @Temperature = -45degC

| FREQ  | Gain  | Isolation | Input Return Loss | Output Return Loss | Stability |       | FREQ  | IP3 Output | 1dB Comp. Output | Noise Figure |
|-------|-------|-----------|-------------------|--------------------|-----------|-------|-------|------------|------------------|--------------|
|       |       |           |                   |                    | K         | Delta |       |            |                  |              |
| (MHz) | (dB)  | (dB)      | (dB)              | (dB)               | K         | Delta | (MHz) | (dBm)      | (dBm)            | (dB)         |
| 50    | 22.94 | 25.66     | 21.37             | 19.53              | 1.05      | 0.74  | 50    | 17.81      | 3.77             | 1.71         |
| 100   | 23.23 | 25.45     | 22.45             | 22.39              | 1.03      | 0.78  | 100   | 17.32      | 2.77             | 1.96         |
| 200   | 23.04 | 25.46     | 22.54             | 19.53              | 1.04      | 0.76  | 150   | 17.66      | 3.07             | 1.78         |
| 400   | 22.60 | 25.58     | 21.13             | 17.05              | 1.05      | 0.72  | 200   | 17.04      | 3.26             | 1.61         |
| 600   | 22.21 | 25.44     | 22.55             | 16.48              | 1.05      | 0.69  | 250   | 16.88      | 2.91             | 1.73         |
| 800   | 21.85 | 25.29     | 21.77             | 15.12              | 1.05      | 0.68  | 300   | 17.08      | 2.84             | 2.13         |
| 1000  | 21.45 | 24.86     | 20.82             | 14.28              | 1.04      | 0.68  | 350   | 17.42      | 3.86             | 1.83         |
| 1200  | 20.84 | 24.76     | 19.48             | 13.07              | 1.06      | 0.64  | 400   | 16.44      | 3.49             | 1.76         |
| 1400  | 20.13 | 24.59     | 18.86             | 12.51              | 1.07      | 0.59  | 450   | 16.52      | 2.98             | 1.75         |
| 1600  | 19.69 | 24.16     | 18.26             | 12.06              | 1.06      | 0.59  | 500   | 16.43      | 2.97             | 1.90         |
| 1800  | 19.24 | 23.73     | 17.29             | 11.77              | 1.05      | 0.58  | 550   | 16.01      | 2.68             | 1.95         |
| 2000  | 18.79 | 23.32     | 17.09             | 11.38              | 1.05      | 0.58  | 600   | 16.35      | 2.90             | 1.76         |
| 2200  | 18.14 | 23.20     | 16.48             | 11.23              | 1.07      | 0.55  | 650   | 16.29      | 2.89             | 1.75         |
| 2400  | 17.74 | 22.83     | 15.62             | 11.23              | 1.06      | 0.54  | 700   | 16.44      | 3.02             | 1.84         |
| 2600  | 17.39 | 22.47     | 15.74             | 11.27              | 1.07      | 0.54  | 750   | 15.95      | 2.73             | 1.88         |
| 2800  | 16.92 | 22.26     | 15.12             | 11.38              | 1.08      | 0.52  | 800   | 16.75      | 3.07             | 1.82         |
| 3000  | 16.57 | 21.93     | 14.28             | 11.61              | 1.07      | 0.51  | 850   | 16.03      | 2.85             | 1.75         |
| 3200  | 16.34 | 21.64     | 13.84             | 11.93              | 1.07      | 0.51  | 900   | 16.39      | 2.98             | 1.87         |
| 3400  | 16.06 | 21.31     | 13.37             | 11.85              | 1.05      | 0.51  | 950   | 16.16      | 3.10             | 1.97         |
| 3600  | 15.85 | 20.95     | 13.61             | 11.76              | 1.05      | 0.53  | 1000  | 16.46      | 2.79             | 1.77         |
| 3800  | 15.51 | 20.92     | 13.16             | 12.02              | 1.07      | 0.50  | 1100  | 16.49      | 2.41             | 1.78         |
| 4000  | 15.36 | 20.54     | 13.33             | 12.01              | 1.06      | 0.52  | 1200  | 16.40      | 2.10             | 1.82         |
| 4200  | 15.08 | 20.41     | 12.71             | 11.87              | 1.06      | 0.52  | 1300  | 16.60      | 2.13             | 1.79         |
| 4400  | 14.98 | 20.18     | 12.43             | 11.80              | 1.05      | 0.52  | 1400  | 16.23      | 2.48             | 1.91         |
| 4600  | 14.79 | 20.02     | 12.13             | 11.30              | 1.05      | 0.53  | 1500  | 16.16      | 2.21             | 1.92         |
| 4800  | 14.71 | 19.77     | 11.90             | 10.98              | 1.03      | 0.54  | 1600  | 16.42      | 2.05             | 1.95         |
| 5000  | 14.57 | 19.70     | 11.71             | 10.32              | 1.03      | 0.55  | 1700  | 16.74      | 2.33             | 1.80         |
| 5500  | 14.42 | 19.27     | 10.92             | 8.71               | 0.99      | 0.59  | 1800  | 16.71      | 2.11             | 1.98         |
| 6000  | 13.85 | 19.20     | 8.63              | 6.55               | 0.96      | 0.63  | 1900  | 16.66      | 2.11             | 1.75         |
| 6500  | 12.83 | 19.65     | 6.54              | 5.08               | 0.96      | 0.64  | 2000  | 16.42      | 2.19             | 1.83         |
| 7000  | 11.48 | 19.92     | 5.31              | 4.24               | 0.99      | 0.65  | 2100  | 16.16      | 2.19             | 1.80         |
| 7500  | 9.67  | 20.10     | 4.72              | 3.96               | 1.09      | 0.63  | 2200  | 17.05      | 2.60             | 1.82         |
| 8000  | 7.92  | 19.49     | 4.48              | 3.91               | 1.15      | 0.61  | 2300  | 17.48      | 2.29             | 1.82         |
| 9000  | 4.29  | 17.96     | 3.92              | 3.68               | 1.27      | 0.60  | 2400  | 17.77      | 2.31             | 1.85         |
| 10000 | 1.48  | 15.54     | 3.61              | 3.70               | 1.24      | 0.60  | 2500  | 17.50      | 2.57             | 1.78         |
| 11000 | 0.28  | 12.18     | 4.25              | 4.51               | 1.16      | 0.57  | 2600  | 17.39      | 2.79             | 1.88         |
| 12000 | -0.10 | 8.90      | 4.92              | 5.57               | 1.07      | 0.60  | 2700  | 17.37      | 2.85             | 1.83         |
| 13000 | -0.68 | 6.09      | 5.29              | 6.40               | 1.00      | 0.66  | 2800  | 17.49      | 2.74             | 1.82         |
| 14000 | -1.85 | 4.75      | 4.79              | 5.53               | 0.98      | 0.73  | 2900  | 17.11      | 2.59             | 1.82         |
| 15000 | -4.73 | 6.24      | 3.02              | 3.08               | 1.02      | 0.75  | 3000  | 17.27      | 2.73             | 1.66         |

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## Typical Performance Data

### Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: Icc = 13mA, Vd = 3.80V @Temperature = -45degC

| FREQ  | Gain  | Isolation | Input Return Loss | Output Return Loss | Stability |       | FREQ  | IP3 Output | 1dB Comp. Output | Noise Figure |
|-------|-------|-----------|-------------------|--------------------|-----------|-------|-------|------------|------------------|--------------|
|       |       |           |                   |                    | K         | Delta |       |            |                  |              |
| (MHz) | (dB)  | (dB)      | (dB)              | (dB)               | K         | Delta | (MHz) | (dBm)      | (dBm)            | (dB)         |
| 50    | 21.17 | 24.43     | 22.68             | 21.54              | 1.07      | 0.69  | 50    | 16.40      | 0.44             | 1.75         |
| 100   | 21.61 | 23.94     | 23.96             | 24.63              | 1.03      | 0.77  | 100   | 15.31      | 0.38             | 1.87         |
| 200   | 21.46 | 24.18     | 22.76             | 24.72              | 1.05      | 0.73  | 150   | 15.81      | 0.36             | 1.81         |
| 400   | 21.04 | 24.25     | 22.46             | 19.72              | 1.06      | 0.69  | 200   | 14.77      | 0.51             | 1.78         |
| 600   | 20.69 | 23.93     | 19.54             | 18.25              | 1.04      | 0.68  | 250   | 14.73      | 0.46             | 1.80         |
| 800   | 20.45 | 23.80     | 19.61             | 15.41              | 1.03      | 0.67  | 300   | 14.76      | 0.61             | 2.03         |
| 1000  | 20.19 | 23.39     | 19.11             | 14.75              | 1.02      | 0.67  | 350   | 15.20      | 0.35             | 1.84         |
| 1200  | 19.67 | 23.44     | 18.09             | 13.74              | 1.03      | 0.62  | 400   | 14.69      | 0.23             | 1.92         |
| 1400  | 18.93 | 23.04     | 15.90             | 13.01              | 1.02      | 0.59  | 450   | 14.35      | 0.01             | 1.82         |
| 1600  | 18.67 | 23.06     | 15.25             | 12.37              | 1.02      | 0.56  | 500   | 14.14      | 0.17             | 1.84         |
| 1800  | 18.32 | 22.57     | 14.23             | 12.01              | 0.99      | 0.57  | 550   | 13.71      | 0.07             | 1.96         |
| 2000  | 17.99 | 22.53     | 14.48             | 11.66              | 1.01      | 0.55  | 600   | 13.27      | 0.60             | 1.90         |
| 2200  | 17.33 | 22.38     | 13.56             | 11.37              | 1.02      | 0.50  | 650   | 13.90      | 0.02             | 1.84         |
| 2400  | 16.95 | 21.84     | 12.66             | 11.27              | 0.99      | 0.51  | 700   | 13.49      | 0.14             | 1.78         |
| 2600  | 16.68 | 21.67     | 13.02             | 11.31              | 1.01      | 0.51  | 750   | 13.35      | 0.09             | 1.86         |
| 2800  | 16.23 | 21.50     | 12.28             | 11.22              | 1.01      | 0.48  | 800   | 13.57      | 0.15             | 1.94         |
| 3000  | 15.86 | 21.03     | 11.47             | 11.43              | 0.99      | 0.48  | 850   | 12.97      | 0.18             | 1.84         |
| 3200  | 15.71 | 21.02     | 11.31             | 11.62              | 1.00      | 0.47  | 900   | 13.57      | 0.31             | 1.83         |
| 3400  | 15.49 | 20.57     | 10.98             | 11.71              | 0.98      | 0.49  | 950   | 13.07      | 0.14             | 1.93         |
| 3600  | 15.36 | 20.42     | 11.19             | 11.58              | 0.98      | 0.49  | 1000  | 13.48      | 0.38             | 1.87         |
| 3800  | 14.99 | 20.25     | 10.82             | 11.69              | 0.99      | 0.48  | 1100  | 13.28      | 0.52             | 1.74         |
| 4000  | 14.93 | 20.03     | 10.94             | 11.96              | 0.99      | 0.49  | 1200  | 13.44      | 0.84             | 1.90         |
| 4200  | 14.65 | 19.89     | 10.38             | 11.86              | 0.98      | 0.48  | 1300  | 13.64      | 0.88             | 1.79         |
| 4400  | 14.57 | 19.56     | 10.03             | 11.92              | 0.96      | 0.50  | 1400  | 13.27      | 1.26             | 2.00         |
| 4600  | 14.40 | 19.49     | 9.90              | 11.61              | 0.97      | 0.50  | 1500  | 13.20      | 1.39             | 1.95         |
| 4800  | 14.36 | 19.15     | 9.87              | 11.26              | 0.95      | 0.52  | 1600  | 13.44      | 1.88             | 1.99         |
| 5000  | 14.24 | 19.11     | 9.63              | 10.77              | 0.94      | 0.52  | 1700  | 13.61      | 1.35             | 1.83         |
| 5500  | 14.18 | 18.71     | 9.57              | 9.23               | 0.92      | 0.57  | 1800  | 13.24      | 0.89             | 2.00         |
| 6000  | 13.66 | 18.61     | 7.74              | 6.90               | 0.88      | 0.61  | 1900  | 13.20      | 1.06             | 1.82         |
| 6500  | 12.66 | 18.72     | 5.93              | 5.38               | 0.85      | 0.62  | 2000  | 13.35      | 1.01             | 1.85         |
| 7000  | 11.31 | 19.33     | 4.94              | 4.62               | 0.90      | 0.62  | 2100  | 12.99      | 1.46             | 1.87         |
| 7500  | 9.52  | 19.70     | 4.53              | 4.32               | 1.03      | 0.60  | 2200  | 13.65      | 1.17             | 1.82         |
| 8000  | 7.79  | 19.31     | 4.35              | 4.29               | 1.12      | 0.58  | 2300  | 13.88      | 0.93             | 1.88         |
| 9000  | 4.13  | 18.02     | 3.92              | 3.97               | 1.29      | 0.57  | 2400  | 14.68      | 0.84             | 1.85         |
| 10000 | 1.36  | 15.74     | 3.64              | 3.95               | 1.27      | 0.57  | 2500  | 14.42      | 0.54             | 1.85         |
| 11000 | 0.10  | 12.41     | 4.23              | 4.76               | 1.18      | 0.53  | 2600  | 14.26      | 0.75             | 1.83         |
| 12000 | -0.29 | 9.09      | 4.87              | 5.84               | 1.08      | 0.56  | 2700  | 14.24      | 0.59             | 1.91         |
| 13000 | -0.87 | 6.20      | 5.18              | 6.54               | 1.00      | 0.64  | 2800  | 14.19      | 0.40             | 1.78         |
| 14000 | -1.94 | 4.75      | 4.73              | 5.59               | 0.98      | 0.72  | 2900  | 14.07      | 0.41             | 1.87         |
| 15000 | -4.81 | 6.22      | 2.99              | 3.09               | 1.02      | 0.75  | 3000  | 14.30      | 0.58             | 1.62         |

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## Typical Performance Data

### Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: Icc = 19mA, Vd = 3.82V @Temperature = -45degC

| FREQ  | Gain  | Isolation | Input Return Loss | Output Return Loss | Stability |       | FREQ  | IP3 Output | 1dB Comp. Output | Noise Figure |
|-------|-------|-----------|-------------------|--------------------|-----------|-------|-------|------------|------------------|--------------|
|       |       |           |                   |                    | K         | Delta |       |            |                  |              |
| (MHz) | (dB)  | (dB)      | (dB)              | (dB)               | K         | Delta | (MHz) | (dBm)      | (dBm)            | (dB)         |
| 50    | 24.10 | 27.05     | 15.62             | 13.07              | 1.04      | 0.75  | 50    | 19.87      | 5.53             | 1.71         |
| 100   | 23.90 | 26.85     | 15.28             | 14.11              | 1.04      | 0.75  | 100   | 19.04      | 5.62             | 2.00         |
| 200   | 23.99 | 26.69     | 15.56             | 14.49              | 1.04      | 0.76  | 150   | 19.88      | 5.57             | 1.77         |
| 400   | 23.71 | 26.46     | 15.77             | 12.99              | 1.03      | 0.76  | 200   | 19.16      | 5.01             | 1.52         |
| 600   | 23.09 | 26.51     | 15.59             | 12.81              | 1.06      | 0.71  | 250   | 19.03      | 5.27             | 1.70         |
| 800   | 22.55 | 26.29     | 17.12             | 12.35              | 1.06      | 0.68  | 300   | 19.28      | 5.44             | 2.14         |
| 1000  | 21.96 | 25.88     | 17.04             | 12.27              | 1.07      | 0.67  | 350   | 19.66      | 6.08             | 1.82         |
| 1200  | 21.49 | 25.40     | 17.58             | 11.55              | 1.06      | 0.66  | 400   | 19.11      | 5.68             | 1.65         |
| 1400  | 20.82 | 25.22     | 17.13             | 11.08              | 1.08      | 0.63  | 450   | 19.09      | 5.53             | 1.70         |
| 1600  | 20.21 | 24.88     | 17.98             | 11.15              | 1.09      | 0.60  | 500   | 19.04      | 5.50             | 1.96         |
| 1800  | 19.65 | 24.52     | 17.49             | 11.11              | 1.10      | 0.59  | 550   | 18.81      | 5.23             | 1.96         |
| 2000  | 19.20 | 24.02     | 17.43             | 10.94              | 1.08      | 0.59  | 600   | 18.66      | 5.15             | 1.68         |
| 2200  | 18.64 | 23.69     | 17.29             | 10.81              | 1.09      | 0.57  | 650   | 18.92      | 5.64             | 1.70         |
| 2400  | 18.16 | 23.36     | 16.86             | 10.80              | 1.10      | 0.56  | 700   | 19.08      | 5.27             | 1.90         |
| 2600  | 17.77 | 22.93     | 16.86             | 11.00              | 1.10      | 0.56  | 750   | 18.92      | 5.51             | 1.91         |
| 2800  | 17.39 | 22.56     | 16.27             | 11.10              | 1.09      | 0.55  | 800   | 19.35      | 5.51             | 1.76         |
| 3000  | 16.96 | 22.28     | 15.97             | 11.30              | 1.10      | 0.54  | 850   | 18.71      | 5.37             | 1.69         |
| 3200  | 16.64 | 21.98     | 15.31             | 11.68              | 1.10      | 0.53  | 900   | 18.98      | 5.50             | 1.90         |
| 3400  | 16.31 | 21.74     | 15.24             | 11.66              | 1.10      | 0.53  | 950   | 18.77      | 5.39             | 1.97         |
| 3600  | 16.09 | 21.36     | 14.81             | 11.65              | 1.08      | 0.53  | 1000  | 19.22      | 5.48             | 1.71         |
| 3800  | 15.76 | 21.26     | 14.66             | 11.77              | 1.10      | 0.52  | 1100  | 19.24      | 5.29             | 1.80         |
| 4000  | 15.58 | 20.91     | 14.62             | 11.83              | 1.09      | 0.53  | 1200  | 19.12      | 4.97             | 1.77         |
| 4200  | 15.37 | 20.73     | 14.09             | 11.66              | 1.09      | 0.53  | 1300  | 19.37      | 4.97             | 1.80         |
| 4400  | 15.20 | 20.52     | 14.14             | 11.52              | 1.09      | 0.54  | 1400  | 19.15      | 5.00             | 1.87         |
| 4600  | 15.04 | 20.29     | 13.40             | 11.00              | 1.07      | 0.55  | 1500  | 19.06      | 4.85             | 1.94         |
| 4800  | 14.84 | 20.17     | 13.42             | 10.65              | 1.08      | 0.55  | 1600  | 19.32      | 4.64             | 1.92         |
| 5000  | 14.80 | 19.93     | 12.74             | 10.02              | 1.05      | 0.57  | 1700  | 19.81      | 4.70             | 1.79         |
| 5500  | 14.57 | 19.68     | 11.54             | 8.42               | 1.03      | 0.60  | 1800  | 19.65      | 4.73             | 1.96         |
| 6000  | 13.95 | 19.62     | 8.97              | 6.35               | 1.00      | 0.63  | 1900  | 19.55      | 4.86             | 1.75         |
| 6500  | 12.95 | 19.93     | 6.81              | 4.81               | 1.00      | 0.66  | 2000  | 19.45      | 4.55             | 1.82         |
| 7000  | 11.56 | 20.20     | 5.45              | 4.03               | 1.02      | 0.66  | 2100  | 19.16      | 4.79             | 1.79         |
| 7500  | 9.78  | 20.21     | 4.79              | 3.76               | 1.10      | 0.64  | 2200  | 19.91      | 4.99             | 1.83         |
| 8000  | 8.00  | 19.62     | 4.53              | 3.75               | 1.17      | 0.62  | 2300  | 20.18      | 5.10             | 1.79         |
| 9000  | 4.36  | 17.98     | 3.89              | 3.55               | 1.27      | 0.62  | 2400  | 20.48      | 5.21             | 1.87         |
| 10000 | 1.57  | 15.49     | 3.56              | 3.53               | 1.23      | 0.62  | 2500  | 19.92      | 5.36             | 1.75         |
| 11000 | 0.38  | 12.11     | 4.21              | 4.34               | 1.15      | 0.59  | 2600  | 19.92      | 5.23             | 1.87         |
| 12000 | 0.02  | 8.83      | 4.93              | 5.44               | 1.06      | 0.62  | 2700  | 19.85      | 5.22             | 1.79         |
| 13000 | -0.60 | 6.02      | 5.36              | 6.34               | 1.00      | 0.67  | 2800  | 19.82      | 5.12             | 1.83         |
| 14000 | -1.77 | 4.74      | 4.82              | 5.49               | 0.98      | 0.74  | 2900  | 19.43      | 5.26             | 1.77         |
| 15000 | -4.68 | 6.22      | 3.03              | 3.09               | 1.02      | 0.75  | 3000  | 19.53      | 5.22             | 1.73         |

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## Typical Performance Data

### Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: Icc = 16mA, Vd = 3.20V @Temperature = +85degC

| FREQ  | Gain  | Isolation | Input Return Loss | Output Return Loss | Stability |       | FREQ  | IP3 Output | 1dB Comp. Output | Noise Figure |
|-------|-------|-----------|-------------------|--------------------|-----------|-------|-------|------------|------------------|--------------|
|       |       |           |                   |                    | K         | Delta |       |            |                  |              |
| (MHz) | (dB)  | (dB)      | (dB)              | (dB)               | K         | Delta | (MHz) | (dBm)      | (dBm)            | (dB)         |
| 50    | 21.36 | 24.48     | 26.10             | 22.36              | 1.06      | 0.70  | 50    | 19.94      | 3.64             | 2.46         |
| 100   | 21.59 | 24.04     | 27.70             | 27.98              | 1.04      | 0.76  | 100   | 19.48      | 3.81             | 2.63         |
| 200   | 21.38 | 24.11     | 30.34             | 23.95              | 1.05      | 0.73  | 150   | 20.57      | 3.82             | 2.56         |
| 400   | 20.99 | 24.19     | 26.32             | 19.16              | 1.06      | 0.69  | 200   | 18.55      | 3.89             | 2.47         |
| 600   | 20.75 | 23.88     | 23.95             | 17.52              | 1.04      | 0.69  | 250   | 18.11      | 3.76             | 2.55         |
| 800   | 20.20 | 23.73     | 21.17             | 15.55              | 1.04      | 0.65  | 300   | 18.79      | 3.52             | 2.81         |
| 1000  | 19.88 | 23.56     | 18.73             | 14.41              | 1.03      | 0.63  | 350   | 19.12      | 3.89             | 2.58         |
| 1200  | 19.22 | 23.54     | 17.43             | 13.43              | 1.05      | 0.58  | 400   | 17.87      | 3.54             | 2.63         |
| 1400  | 18.79 | 23.13     | 17.29             | 12.75              | 1.04      | 0.58  | 450   | 17.98      | 3.58             | 2.60         |
| 1600  | 18.09 | 22.86     | 16.51             | 12.20              | 1.05      | 0.54  | 500   | 17.59      | 3.55             | 2.65         |
| 1800  | 17.72 | 22.53     | 15.77             | 11.68              | 1.04      | 0.53  | 550   | 17.07      | 3.40             | 2.73         |
| 2000  | 17.17 | 22.43     | 14.87             | 11.34              | 1.05      | 0.50  | 600   | 17.04      | 2.97             | 2.61         |
| 2200  | 16.60 | 22.20     | 14.71             | 11.22              | 1.07      | 0.48  | 650   | 17.39      | 2.62             | 2.62         |
| 2400  | 16.33 | 21.80     | 14.18             | 11.10              | 1.05      | 0.48  | 700   | 17.40      | 2.59             | 2.61         |
| 2600  | 15.89 | 21.74     | 13.35             | 11.13              | 1.06      | 0.45  | 750   | 17.24      | 2.86             | 2.67         |
| 2800  | 15.46 | 21.50     | 13.05             | 11.15              | 1.07      | 0.44  | 800   | 17.52      | 2.90             | 2.72         |
| 3000  | 15.19 | 21.13     | 12.80             | 11.26              | 1.06      | 0.44  | 850   | 16.91      | 2.69             | 2.64         |
| 3200  | 14.79 | 20.88     | 12.35             | 11.50              | 1.07      | 0.43  | 900   | 16.98      | 2.61             | 2.69         |
| 3400  | 14.58 | 20.61     | 12.10             | 11.58              | 1.06      | 0.44  | 950   | 16.81      | 3.02             | 2.82         |
| 3600  | 14.32 | 20.44     | 11.65             | 11.67              | 1.06      | 0.43  | 1000  | 17.03      | 3.31             | 2.67         |
| 3800  | 14.03 | 20.25     | 11.86             | 11.96              | 1.08      | 0.43  | 1100  | 17.12      | 2.97             | 2.64         |
| 4000  | 13.85 | 20.02     | 11.63             | 11.92              | 1.07      | 0.43  | 1200  | 16.98      | 2.49             | 2.74         |
| 4200  | 13.63 | 19.77     | 11.92             | 11.97              | 1.08      | 0.44  | 1300  | 16.99      | 2.29             | 2.66         |
| 4400  | 13.59 | 19.56     | 12.00             | 11.83              | 1.07      | 0.45  | 1400  | 16.79      | 2.57             | 2.85         |
| 4600  | 13.34 | 19.42     | 11.92             | 11.51              | 1.07      | 0.45  | 1500  | 17.09      | 2.40             | 2.82         |
| 4800  | 13.23 | 19.14     | 11.70             | 11.04              | 1.05      | 0.46  | 1600  | 17.33      | 2.43             | 2.86         |
| 5000  | 13.11 | 19.12     | 11.30             | 10.57              | 1.05      | 0.46  | 1700  | 17.73      | 2.44             | 2.73         |
| 5500  | 12.74 | 18.88     | 10.27             | 8.98               | 1.02      | 0.47  | 1800  | 17.37      | 2.67             | 2.86         |
| 6000  | 12.14 | 18.81     | 9.23              | 7.27               | 1.01      | 0.49  | 1900  | 17.45      | 2.66             | 2.76         |
| 6500  | 11.22 | 18.80     | 8.01              | 5.99               | 1.02      | 0.51  | 2000  | 17.16      | 2.57             | 2.70         |
| 7000  | 9.78  | 19.10     | 6.78              | 5.10               | 1.09      | 0.51  | 2100  | 16.92      | 2.53             | 2.85         |
| 7500  | 7.96  | 19.51     | 5.87              | 4.78               | 1.25      | 0.50  | 2200  | 17.62      | 2.96             | 2.73         |
| 8000  | 6.08  | 19.16     | 5.38              | 4.44               | 1.36      | 0.50  | 2300  | 17.93      | 2.92             | 2.82         |
| 9000  | 2.61  | 17.94     | 4.66              | 4.30               | 1.56      | 0.50  | 2400  | 18.22      | 3.22             | 2.81         |
| 10000 | 0.28  | 15.34     | 4.48              | 4.52               | 1.51      | 0.49  | 2500  | 17.44      | 3.36             | 2.77         |
| 11000 | -1.04 | 12.30     | 5.06              | 5.03               | 1.40      | 0.48  | 2600  | 17.22      | 3.18             | 2.85         |
| 12000 | -1.53 | 9.27      | 5.45              | 6.18               | 1.24      | 0.49  | 2700  | 17.26      | 2.89             | 2.81         |
| 13000 | -1.64 | 6.16      | 6.69              | 8.03               | 1.14      | 0.55  | 2800  | 17.10      | 2.92             | 2.78         |
| 14000 | -3.15 | 5.48      | 5.08              | 5.46               | 1.11      | 0.65  | 2900  | 16.70      | 2.97             | 2.81         |
| 15000 | -5.74 | 6.74      | 3.42              | 3.59               | 1.15      | 0.66  | 3000  | 16.81      | 2.97             | 2.60         |

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## Typical Performance Data

### Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: Icc = 13mA, Vd = 3.17V @Temperature = +85degC

| FREQ  | Gain  | Isolation | Input Return Loss | Output Return Loss | Stability |       | FREQ  | IP3 Output | 1dB Comp. Output | Noise Figure |
|-------|-------|-----------|-------------------|--------------------|-----------|-------|-------|------------|------------------|--------------|
|       |       |           |                   |                    | K         | Delta |       |            |                  |              |
| (MHz) | (dB)  | (dB)      | (dB)              | (dB)               | K         | Delta | (MHz) | (dBm)      | (dBm)            | (dB)         |
| 50    | 19.59 | 22.83     | 14.79             | 13.09              | 1.05      | 0.73  | 50    | 17.53      | 0.51             | 2.54         |
| 100   | 19.83 | 22.77     | 16.05             | 15.52              | 1.05      | 0.74  | 100   | 17.26      | 0.24             | 2.59         |
| 200   | 19.92 | 23.01     | 17.34             | 14.27              | 1.05      | 0.72  | 150   | 17.92      | 0.48             | 2.62         |
| 400   | 19.39 | 23.08     | 15.26             | 13.05              | 1.06      | 0.68  | 200   | 16.48      | 0.03             | 2.63         |
| 600   | 19.24 | 22.81     | 14.99             | 13.47              | 1.04      | 0.67  | 250   | 16.22      | 0.36             | 2.65         |
| 800   | 18.57 | 22.72     | 13.89             | 12.83              | 1.04      | 0.62  | 300   | 15.99      | 0.28             | 2.74         |
| 1000  | 18.42 | 22.32     | 13.83             | 12.68              | 1.01      | 0.62  | 350   | 16.73      | 1.23             | 2.63         |
| 1200  | 17.87 | 22.26     | 13.06             | 11.80              | 1.01      | 0.58  | 400   | 15.99      | 0.22             | 2.81         |
| 1400  | 17.48 | 21.91     | 12.55             | 11.65              | 0.99      | 0.56  | 450   | 15.46      | 0.10             | 2.70         |
| 1600  | 16.94 | 21.82     | 12.44             | 11.22              | 1.00      | 0.52  | 500   | 15.60      | 0.51             | 2.63         |
| 1800  | 16.70 | 21.46     | 12.45             | 11.00              | 0.98      | 0.52  | 550   | 14.68      | 0.57             | 2.76         |
| 2000  | 16.32 | 21.31     | 12.36             | 10.60              | 0.98      | 0.50  | 600   | 14.71      | 0.07             | 2.80         |
| 2200  | 15.72 | 21.25     | 11.50             | 10.45              | 0.99      | 0.46  | 650   | 14.96      | 0.34             | 2.76         |
| 2400  | 15.47 | 20.75     | 11.22             | 10.46              | 0.97      | 0.47  | 700   | 14.86      | 0.40             | 2.61         |
| 2600  | 15.18 | 20.61     | 11.20             | 10.42              | 0.97      | 0.46  | 750   | 14.47      | 0.38             | 2.68         |
| 2800  | 14.66 | 20.49     | 10.42             | 10.34              | 0.98      | 0.43  | 800   | 14.93      | 0.65             | 2.86         |
| 3000  | 14.40 | 20.13     | 10.10             | 10.58              | 0.96      | 0.43  | 850   | 14.19      | 0.44             | 2.77         |
| 3200  | 14.03 | 20.06     | 9.84              | 10.69              | 0.98      | 0.41  | 900   | 14.46      | 0.22             | 2.71         |
| 3400  | 13.89 | 19.71     | 9.92              | 10.89              | 0.97      | 0.42  | 950   | 14.62      | 0.34             | 2.82         |
| 3600  | 13.72 | 19.53     | 9.83              | 10.90              | 0.97      | 0.42  | 1000  | 14.48      | 0.17             | 2.80         |
| 3800  | 13.33 | 19.40     | 9.40              | 11.28              | 0.98      | 0.41  | 1100  | 14.71      | 0.19             | 2.66         |
| 4000  | 13.35 | 19.16     | 9.85              | 11.24              | 0.98      | 0.43  | 1200  | 14.66      | 0.69             | 2.85         |
| 4200  | 13.09 | 19.02     | 9.56              | 11.36              | 0.98      | 0.42  | 1300  | 14.51      | 0.27             | 2.70         |
| 4400  | 13.07 | 18.69     | 9.77              | 11.51              | 0.97      | 0.44  | 1400  | 14.52      | 0.88             | 2.94         |
| 4600  | 12.87 | 18.62     | 9.59              | 11.33              | 0.97      | 0.43  | 1500  | 14.63      | 0.59             | 2.87         |
| 4800  | 12.80 | 18.21     | 9.68              | 11.18              | 0.95      | 0.45  | 1600  | 14.82      | 0.69             | 2.94         |
| 5000  | 12.69 | 18.25     | 9.27              | 10.76              | 0.94      | 0.44  | 1700  | 15.15      | 0.41             | 2.80         |
| 5500  | 12.39 | 17.91     | 8.95              | 9.45               | 0.92      | 0.47  | 1800  | 14.47      | 0.61             | 2.94         |
| 6000  | 11.93 | 17.76     | 8.36              | 7.75               | 0.90      | 0.49  | 1900  | 14.51      | 0.24             | 2.84         |
| 6500  | 10.99 | 17.70     | 7.27              | 6.41               | 0.90      | 0.50  | 2000  | 14.54      | 0.51             | 2.74         |
| 7000  | 9.58  | 18.29     | 6.39              | 5.56               | 1.00      | 0.49  | 2100  | 14.30      | 0.42             | 2.92         |
| 7500  | 7.77  | 18.69     | 5.70              | 5.18               | 1.16      | 0.48  | 2200  | 15.05      | 0.58             | 2.74         |
| 8000  | 5.92  | 18.68     | 5.27              | 4.88               | 1.31      | 0.48  | 2300  | 15.59      | 0.30             | 2.92         |
| 9000  | 2.46  | 17.81     | 4.69              | 4.67               | 1.58      | 0.47  | 2400  | 16.04      | 0.15             | 2.81         |
| 10000 | 0.10  | 15.46     | 4.50              | 4.87               | 1.55      | 0.46  | 2500  | 15.43      | 0.28             | 2.86         |
| 11000 | -1.22 | 12.53     | 5.07              | 5.29               | 1.44      | 0.45  | 2600  | 15.07      | 0.09             | 2.85         |
| 12000 | -1.76 | 9.50      | 5.40              | 6.35               | 1.27      | 0.47  | 2700  | 14.99      | 0.26             | 2.93         |
| 13000 | -1.81 | 6.29      | 6.56              | 8.18               | 1.15      | 0.53  | 2800  | 15.06      | 0.38             | 2.80         |
| 14000 | -3.27 | 5.51      | 5.04              | 5.49               | 1.12      | 0.64  | 2900  | 14.65      | 0.20             | 2.91         |
| 15000 | -5.86 | 6.71      | 3.42              | 3.60               | 1.15      | 0.66  | 3000  | 15.13      | 0.25             | 2.58         |

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## Typical Performance Data

### Definitions:

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: Icc = 19mA, Vd = 3.22V @Temperature = +85degC

| FREQ  | Gain  | Isolation | Input Return Loss | Output Return Loss | Stability |       | FREQ  | IP3 Output | 1dB Comp. Output | Noise Figure |
|-------|-------|-----------|-------------------|--------------------|-----------|-------|-------|------------|------------------|--------------|
|       |       |           |                   |                    | K         | Delta |       |            |                  |              |
| (MHz) | (dB)  | (dB)      | (dB)              | (dB)               | K         | Delta | (MHz) | (dBm)      | (dBm)            | (dB)         |
| 50    | 22.44 | 24.83     | 28.87             | 25.42              | 1.04      | 0.76  | 50    | 21.06      | 5.96             | 2.40         |
| 100   | 22.58 | 25.07     | 23.79             | 25.05              | 1.04      | 0.75  | 100   | 20.87      | 6.10             | 2.67         |
| 200   | 22.39 | 24.89     | 24.68             | 24.02              | 1.04      | 0.75  | 150   | 21.96      | 6.37             | 2.52         |
| 400   | 21.99 | 24.78     | 27.28             | 19.57              | 1.04      | 0.73  | 200   | 20.73      | 5.91             | 2.35         |
| 600   | 21.50 | 24.90     | 25.19             | 17.44              | 1.06      | 0.67  | 250   | 20.03      | 6.18             | 2.52         |
| 800   | 21.10 | 24.79     | 24.09             | 15.20              | 1.06      | 0.65  | 300   | 20.35      | 5.69             | 2.84         |
| 1000  | 20.64 | 24.55     | 22.69             | 14.29              | 1.06      | 0.63  | 350   | 20.76      | 6.01             | 2.57         |
| 1200  | 20.02 | 24.14     | 20.77             | 13.27              | 1.06      | 0.61  | 400   | 19.73      | 5.55             | 2.52         |
| 1400  | 19.33 | 24.03     | 19.87             | 12.52              | 1.08      | 0.57  | 450   | 19.63      | 5.59             | 2.54         |
| 1600  | 18.79 | 23.75     | 19.02             | 11.98              | 1.08      | 0.55  | 500   | 19.56      | 5.45             | 2.67         |
| 1800  | 18.28 | 23.51     | 18.08             | 11.58              | 1.09      | 0.53  | 550   | 19.18      | 5.70             | 2.72         |
| 2000  | 17.78 | 23.04     | 17.04             | 11.26              | 1.08      | 0.52  | 600   | 19.13      | 5.12             | 2.53         |
| 2200  | 17.17 | 22.81     | 16.50             | 11.16              | 1.10      | 0.49  | 650   | 19.36      | 5.47             | 2.57         |
| 2400  | 16.73 | 22.56     | 15.86             | 11.09              | 1.10      | 0.48  | 700   | 19.27      | 5.41             | 2.64         |
| 2600  | 16.36 | 22.21     | 15.16             | 11.21              | 1.09      | 0.47  | 750   | 19.01      | 5.57             | 2.67         |
| 2800  | 15.90 | 21.88     | 14.53             | 11.25              | 1.10      | 0.46  | 800   | 19.41      | 5.17             | 2.61         |
| 3000  | 15.52 | 21.71     | 14.34             | 11.33              | 1.11      | 0.45  | 850   | 19.01      | 5.14             | 2.56         |
| 3200  | 15.23 | 21.43     | 14.08             | 11.62              | 1.12      | 0.45  | 900   | 19.19      | 5.07             | 2.71         |
| 3400  | 14.95 | 21.20     | 13.89             | 11.67              | 1.12      | 0.44  | 950   | 18.91      | 5.45             | 2.80         |
| 3600  | 14.74 | 20.87     | 13.32             | 11.82              | 1.10      | 0.45  | 1000  | 19.29      | 5.40             | 2.59         |
| 3800  | 14.41 | 20.78     | 13.54             | 12.06              | 1.13      | 0.44  | 1100  | 19.16      | 5.21             | 2.63         |
| 4000  | 14.26 | 20.48     | 13.26             | 12.02              | 1.11      | 0.44  | 1200  | 19.12      | 5.09             | 2.68         |
| 4200  | 13.98 | 20.23     | 13.34             | 11.97              | 1.12      | 0.45  | 1300  | 19.33      | 5.23             | 2.65         |
| 4400  | 13.82 | 20.13     | 13.43             | 11.73              | 1.12      | 0.45  | 1400  | 18.99      | 5.15             | 2.78         |
| 4600  | 13.63 | 19.88     | 13.15             | 11.32              | 1.11      | 0.46  | 1500  | 18.96      | 4.88             | 2.80         |
| 4800  | 13.48 | 19.75     | 13.10             | 10.83              | 1.11      | 0.46  | 1600  | 19.36      | 5.04             | 2.81         |
| 5000  | 13.33 | 19.52     | 12.24             | 10.22              | 1.09      | 0.47  | 1700  | 19.82      | 5.02             | 2.69         |
| 5500  | 12.98 | 19.37     | 11.30             | 8.57               | 1.07      | 0.49  | 1800  | 19.54      | 4.79             | 2.87         |
| 6000  | 12.32 | 19.25     | 9.79              | 6.98               | 1.05      | 0.50  | 1900  | 19.28      | 5.15             | 2.72         |
| 6500  | 11.33 | 19.46     | 8.32              | 5.77               | 1.08      | 0.51  | 2000  | 19.20      | 5.12             | 2.68         |
| 7000  | 9.90  | 19.70     | 6.99              | 4.90               | 1.16      | 0.52  | 2100  | 18.86      | 5.03             | 2.79         |
| 7500  | 8.08  | 19.79     | 5.96              | 4.53               | 1.27      | 0.52  | 2200  | 19.40      | 4.99             | 2.72         |
| 8000  | 6.22  | 19.48     | 5.41              | 4.26               | 1.39      | 0.52  | 2300  | 19.68      | 5.36             | 2.77         |
| 9000  | 2.74  | 18.06     | 4.63              | 4.10               | 1.55      | 0.51  | 2400  | 19.56      | 5.37             | 2.79         |
| 10000 | 0.39  | 15.25     | 4.44              | 4.38               | 1.48      | 0.51  | 2500  | 18.90      | 5.45             | 2.72         |
| 11000 | -0.93 | 12.22     | 5.07              | 4.90               | 1.38      | 0.49  | 2600  | 18.58      | 5.28             | 2.85         |
| 12000 | -1.39 | 9.16      | 5.49              | 6.00               | 1.23      | 0.51  | 2700  | 18.80      | 5.31             | 2.76         |
| 13000 | -1.53 | 6.09      | 6.73              | 8.00               | 1.14      | 0.56  | 2800  | 18.45      | 5.29             | 2.80         |
| 14000 | -3.06 | 5.47      | 5.08              | 5.40               | 1.11      | 0.65  | 2900  | 18.11      | 5.14             | 2.76         |
| 15000 | -5.71 | 6.72      | 3.44              | 3.59               | 1.15      | 0.66  | 3000  | 18.19      | 5.20             | 2.63         |

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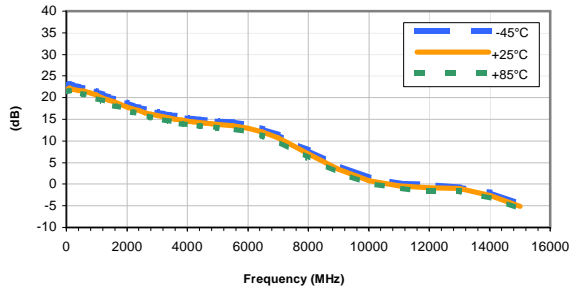
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## Typical Performance Curves

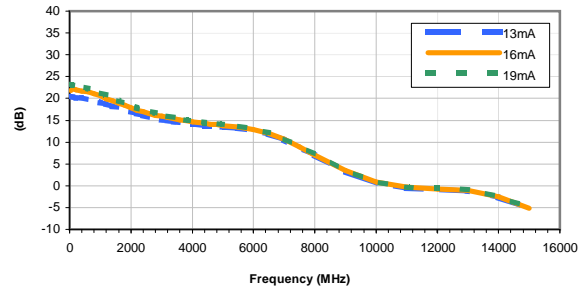
### GAIN vs. TEMPERATURE

INPUT POWER = -27dBm, CURRENT = 16mA



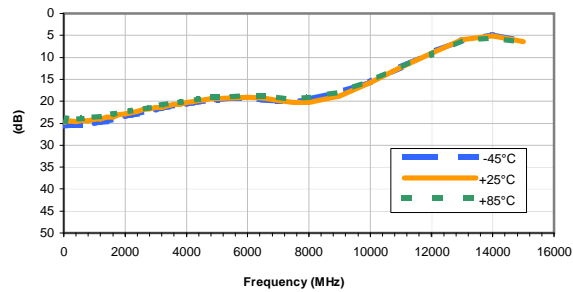
### GAIN vs. CURRENT

INPUT POWER = -27dBm, Temperature = +25°C



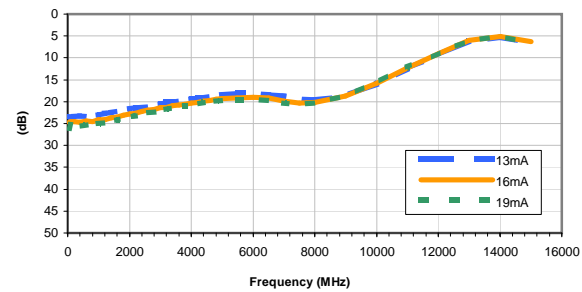
### ISOLATION vs. TEMPERATURE

INPUT POWER = -27dBm, CURRENT = 16mA



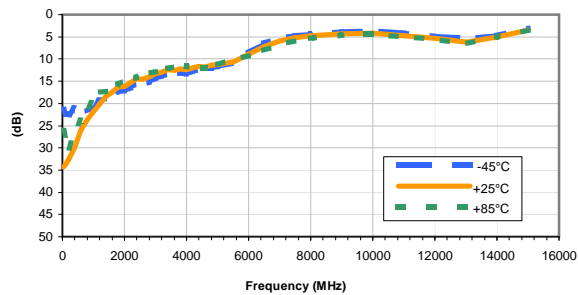
### ISOLATION vs. CURRENT

INPUT POWER = -27dBm, Temperature = +25°C



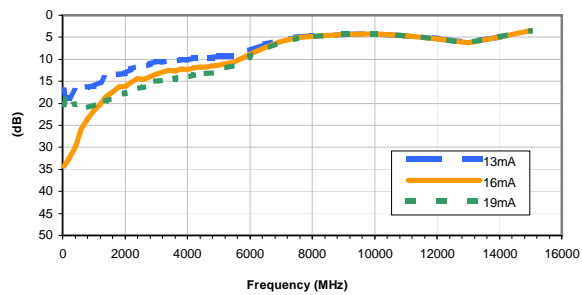
### INPUT RETURN LOSS vs. TEMPERATURE

INPUT POWER = -27dBm, CURRENT = 16mA



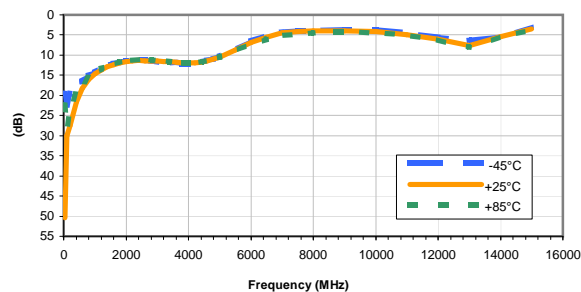
### INPUT RETURN LOSS vs. CURRENT

INPUT POWER = -27dBm, Temperature = +25°C



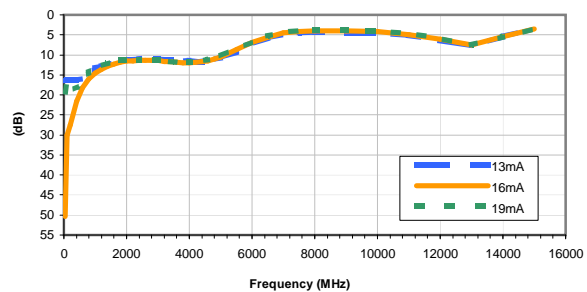
### OUTPUT RETURN LOSS vs. TEMPERATURE

INPUT POWER = -27dBm, CURRENT = 16mA



### OUTPUT RETURN LOSS vs. CURRENT

INPUT POWER = -27dBm, Temperature = +25°C



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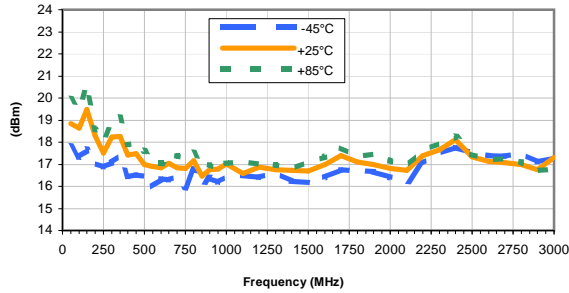
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## Typical Performance Curves

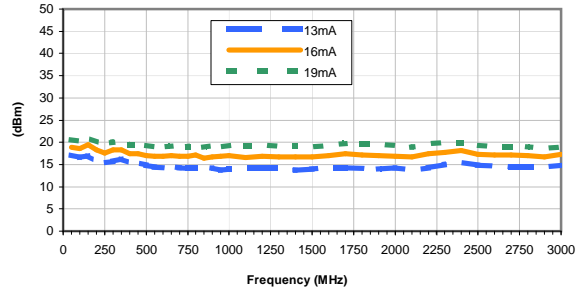
**OUTPUT IP3 vs. TEMPERATURE**

INPUT POWER = -27dBm, CURRENT = 16mA



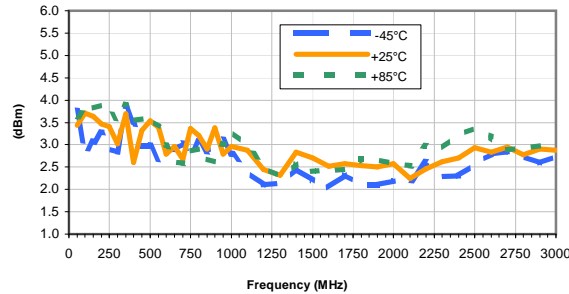
**OUTPUT IP3 vs. CURRENT**

INPUT POWER = -27dBm, Temperature = +25°C



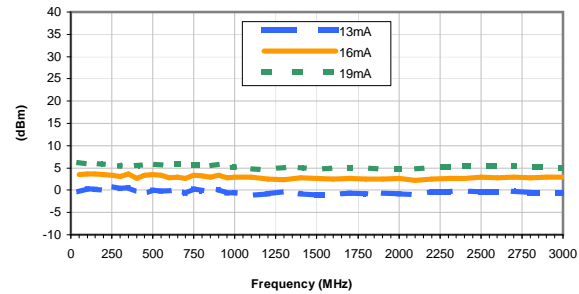
**OUTPUT POWER at 1dB Compression vs. TEMPERATURE**

CURRENT = 16mA



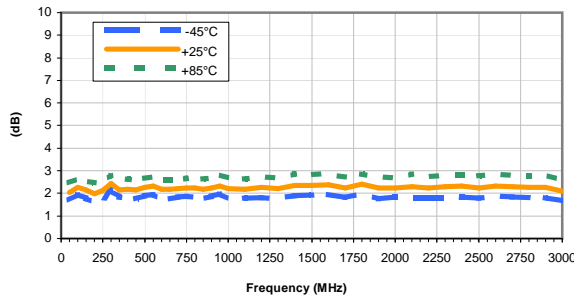
**OUTPUT POWER at 1dB Compression vs. CURRENT**

Temperature = +25°C



**Noise Figure vs. TEMPERATURE**

CURRENT = 16mA



**Noise Figure vs. CURRENT**

Temperature = +25°C

