

## Typical Performance Data

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

**Definitions:**

Input Return Loss = -S11 (dB)

Gain(Power Gain) = S21 (dB)

Reverse Isolation = -S12 (dB)

Output Return Loss = -S22 (dB)

TEST CONDITIONS: Vd = 5.00V, Id = 50.85mA @ Temperature = +25°C

| FREQ  | Gain  | Isolation | Input Return Loss | Output Return Loss | Stability |         | IP-3 Output | 1dB Comp. Output | Noise Figure |
|-------|-------|-----------|-------------------|--------------------|-----------|---------|-------------|------------------|--------------|
|       |       |           |                   |                    | K         | Measure |             |                  |              |
| (MHz) | (dB)  | (dB)      | (dB)              | (dB)               | K         | Measure | (dBm)       | (dBm)            | (dB)         |
| 700   | 20.04 | 41.32     | 4.03              | 5.06               | 2.81      | 0.89    | 24.55       | 13.87            | 0.62         |
| 800   | 20.41 | 39.08     | 5.83              | 5.70               | 2.63      | 0.85    | 25.79       | 14.87            | 0.53         |
| 850   | 20.42 | 38.30     | 6.74              | 6.05               | 2.60      | 0.84    | 26.25       | 15.19            | 0.48         |
| 900   | 20.34 | 37.70     | 7.59              | 6.41               | 2.60      | 0.84    | 26.71       | 15.41            | 0.49         |
| 910   | 20.31 | 37.60     | 7.76              | 6.47               | 2.60      | 0.84    | 26.91       | 15.51            | 0.42         |
| 920   | 20.28 | 37.51     | 7.93              | 6.55               | 2.61      | 0.84    | 27.00       | 15.37            | 0.50         |
| 930   | 20.24 | 37.41     | 8.09              | 6.62               | 2.62      | 0.84    | 27.02       | 15.48            | 0.66         |
| 940   | 20.20 | 37.33     | 8.24              | 6.69               | 2.62      | 0.84    | 27.20       | 15.47            | 0.43         |
| 950   | 20.17 | 37.26     | 8.40              | 6.77               | 2.63      | 0.84    | 27.34       | 15.74            | 0.43         |
| 960   | 20.13 | 37.18     | 8.56              | 6.84               | 2.65      | 0.84    | 27.18       | 15.79            | 0.49         |
| 970   | 20.08 | 37.10     | 8.71              | 6.91               | 2.65      | 0.84    | 27.03       | 15.80            | 0.40         |
| 980   | 20.04 | 37.04     | 8.86              | 6.98               | 2.67      | 0.85    | 27.23       | 15.50            | 0.47         |
| 990   | 19.99 | 36.96     | 9.01              | 7.05               | 2.68      | 0.85    | 27.58       | 15.39            | 0.43         |
| 1000  | 19.94 | 36.90     | 9.16              | 7.13               | 2.69      | 0.85    | 27.84       | 15.67            | 0.53         |
| 1010  | 19.89 | 36.84     | 9.30              | 7.20               | 2.70      | 0.85    | 27.67       | 16.05            | 0.50         |
| 1020  | 19.83 | 36.78     | 9.44              | 7.27               | 2.72      | 0.85    | 27.42       | 16.07            | 0.50         |
| 1030  | 19.78 | 36.73     | 9.59              | 7.34               | 2.73      | 0.85    | 27.53       | 15.80            | 0.50         |
| 1040  | 19.73 | 36.68     | 9.73              | 7.41               | 2.75      | 0.86    | 27.78       | 15.78            | 0.49         |
| 1050  | 19.67 | 36.64     | 9.87              | 7.49               | 2.77      | 0.86    | 27.92       | 15.90            | 0.48         |
| 1060  | 19.61 | 36.59     | 10.01             | 7.56               | 2.79      | 0.86    | 27.89       | 15.94            | 0.43         |
| 1070  | 19.55 | 36.55     | 10.15             | 7.63               | 2.81      | 0.86    | 27.87       | 15.74            | 0.46         |
| 1080  | 19.49 | 36.50     | 10.29             | 7.71               | 2.83      | 0.86    | 27.93       | 15.81            | 0.47         |
| 1090  | 19.43 | 36.46     | 10.43             | 7.79               | 2.85      | 0.86    | 28.03       | 15.72            | 0.48         |
| 1100  | 19.36 | 36.42     | 10.56             | 7.85               | 2.87      | 0.87    | 28.09       | 15.69            | 0.49         |
| 1110  | 19.30 | 36.39     | 10.70             | 7.93               | 2.89      | 0.87    | 28.12       | 15.89            | 0.47         |
| 1120  | 19.23 | 36.35     | 10.83             | 8.01               | 2.91      | 0.87    | 27.99       | 16.14            | 0.50         |
| 1130  | 19.16 | 36.31     | 10.97             | 8.10               | 2.94      | 0.87    | 27.76       | 16.06            | 0.45         |
| 1140  | 19.10 | 36.28     | 11.09             | 8.18               | 2.96      | 0.88    | 27.67       | 15.73            | 0.48         |
| 1150  | 19.03 | 36.24     | 11.23             | 8.26               | 2.98      | 0.88    | 27.90       | 15.59            | 0.50         |
| 1160  | 18.97 | 36.24     | 11.39             | 8.35               | 3.02      | 0.88    | 28.19       | 15.64            | 0.53         |
| 1170  | 18.90 | 36.21     | 11.53             | 8.43               | 3.04      | 0.88    | 28.09       | 15.72            | 0.53         |
| 1180  | 18.83 | 36.19     | 11.68             | 8.52               | 3.07      | 0.89    | 27.91       | 15.71            | 0.49         |
| 1190  | 18.76 | 36.16     | 11.82             | 8.60               | 3.10      | 0.89    | 27.94       | 15.60            | 0.40         |
| 1200  | 18.69 | 36.15     | 11.96             | 8.69               | 3.13      | 0.89    | 28.02       | 15.65            | 0.53         |
| 1250  | 18.32 | 36.05     | 12.72             | 9.19               | 3.30      | 0.90    | 27.83       | 15.36            | 0.53         |
| 1300  | 17.93 | 35.98     | 13.52             | 9.77               | 3.48      | 0.92    | 27.48       | 15.14            | 0.58         |
| 1350  | 17.51 | 35.96     | 14.37             | 10.43              | 3.72      | 0.93    | 26.91       | 14.69            | 0.58         |
| 1400  | 17.06 | 35.98     | 15.19             | 11.18              | 3.99      | 0.94    | 26.60       | 14.47            | 0.59         |
| 1450  | 16.56 | 36.06     | 15.86             | 11.94              | 4.33      | 0.96    | 25.55       | 14.00            | 0.62         |
| 1500  | 16.00 | 36.20     | 16.30             | 12.62              | 4.74      | 0.97    | 25.16       | 13.86            | 0.58         |

## 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: Vd = 4.75V, Id = 47.36mA @ Temperature = +25°C

| FREQ  | Gain  | Isolation | Input Return Loss | Output Return Loss | Stability |         | IP-3 Output | 1dB Comp. Output | Noise Figure |
|-------|-------|-----------|-------------------|--------------------|-----------|---------|-------------|------------------|--------------|
|       |       |           |                   |                    | K         | Measure |             |                  |              |
| (MHz) | (dB)  | (dB)      | (dB)              | (dB)               | K         | Measure | (dBm)       | (dBm)            | (dB)         |
| 700   | 19.93 | 41.21     | 3.97              | 5.07               | 2.79      | 0.90    | 23.89       | 13.58            | 0.63         |
| 800   | 20.32 | 38.96     | 5.76              | 5.72               | 2.62      | 0.85    | 25.16       | 14.75            | 0.55         |
| 850   | 20.34 | 38.19     | 6.67              | 6.07               | 2.59      | 0.84    | 25.62       | 15.14            | 0.52         |
| 900   | 20.26 | 37.60     | 7.54              | 6.43               | 2.59      | 0.84    | 26.09       | 15.39            | 0.48         |
| 910   | 20.23 | 37.50     | 7.70              | 6.50               | 2.60      | 0.84    | 26.33       | 15.57            | 0.43         |
| 920   | 20.20 | 37.41     | 7.86              | 6.57               | 2.60      | 0.84    | 26.43       | 15.48            | 0.51         |
| 930   | 20.16 | 37.32     | 8.03              | 6.64               | 2.61      | 0.84    | 26.46       | 15.56            | 0.59         |
| 940   | 20.13 | 37.24     | 8.19              | 6.71               | 2.62      | 0.84    | 26.63       | 15.59            | 0.55         |
| 950   | 20.09 | 37.16     | 8.35              | 6.79               | 2.63      | 0.84    | 26.77       | 15.87            | 0.46         |
| 960   | 20.05 | 37.09     | 8.51              | 6.86               | 2.64      | 0.84    | 26.57       | 15.92            | 0.52         |
| 970   | 20.01 | 37.01     | 8.66              | 6.94               | 2.65      | 0.85    | 26.44       | 15.96            | 0.42         |
| 980   | 19.96 | 36.94     | 8.81              | 7.00               | 2.66      | 0.85    | 26.72       | 15.67            | 0.44         |
| 990   | 19.92 | 36.87     | 8.97              | 7.07               | 2.67      | 0.85    | 27.12       | 15.58            | 0.44         |
| 1000  | 19.87 | 36.81     | 9.11              | 7.15               | 2.69      | 0.85    | 27.34       | 15.81            | 0.53         |
| 1010  | 19.82 | 36.75     | 9.26              | 7.22               | 2.70      | 0.85    | 27.10       | 16.20            | 0.49         |
| 1020  | 19.76 | 36.70     | 9.40              | 7.30               | 2.72      | 0.85    | 26.86       | 16.19            | 0.52         |
| 1030  | 19.71 | 36.64     | 9.55              | 7.36               | 2.73      | 0.85    | 27.01       | 15.97            | 0.53         |
| 1040  | 19.65 | 36.59     | 9.69              | 7.44               | 2.75      | 0.86    | 27.29       | 15.98            | 0.50         |
| 1050  | 19.59 | 36.54     | 9.83              | 7.52               | 2.77      | 0.86    | 27.44       | 16.05            | 0.48         |
| 1060  | 19.54 | 36.51     | 9.98              | 7.58               | 2.79      | 0.86    | 27.42       | 16.10            | 0.47         |
| 1070  | 19.48 | 36.46     | 10.12             | 7.66               | 2.81      | 0.86    | 27.42       | 15.97            | 0.47         |
| 1080  | 19.41 | 36.42     | 10.27             | 7.74               | 2.83      | 0.86    | 27.54       | 16.00            | 0.49         |
| 1090  | 19.35 | 36.38     | 10.41             | 7.81               | 2.85      | 0.87    | 27.66       | 15.93            | 0.49         |
| 1100  | 19.29 | 36.34     | 10.54             | 7.89               | 2.87      | 0.87    | 27.72       | 15.92            | 0.48         |
| 1110  | 19.23 | 36.31     | 10.68             | 7.96               | 2.89      | 0.87    | 27.70       | 16.11            | 0.48         |
| 1120  | 19.16 | 36.28     | 10.81             | 8.04               | 2.92      | 0.87    | 27.55       | 16.31            | 0.47         |
| 1130  | 19.09 | 36.24     | 10.96             | 8.12               | 2.94      | 0.87    | 27.33       | 16.23            | 0.47         |
| 1140  | 19.03 | 36.20     | 11.08             | 8.20               | 2.96      | 0.88    | 27.34       | 15.95            | 0.48         |
| 1150  | 18.96 | 36.16     | 11.23             | 8.30               | 2.99      | 0.88    | 27.66       | 15.90            | 0.48         |
| 1160  | 18.90 | 36.16     | 11.39             | 8.37               | 3.02      | 0.88    | 27.97       | 15.95            | 0.54         |
| 1170  | 18.83 | 36.14     | 11.53             | 8.45               | 3.05      | 0.88    | 27.83       | 15.97            | 0.53         |
| 1180  | 18.76 | 36.11     | 11.68             | 8.55               | 3.08      | 0.89    | 27.70       | 15.95            | 0.51         |
| 1190  | 18.69 | 36.09     | 11.83             | 8.63               | 3.10      | 0.89    | 27.76       | 15.85            | 0.43         |
| 1200  | 18.62 | 36.07     | 11.98             | 8.72               | 3.14      | 0.89    | 27.80       | 15.94            | 0.52         |
| 1250  | 18.25 | 35.98     | 12.76             | 9.21               | 3.30      | 0.90    | 27.89       | 15.63            | 0.55         |
| 1300  | 17.86 | 35.91     | 13.57             | 9.80               | 3.49      | 0.92    | 27.73       | 15.40            | 0.58         |
| 1350  | 17.45 | 35.90     | 14.48             | 10.45              | 3.73      | 0.93    | 27.42       | 15.02            | 0.55         |
| 1400  | 16.99 | 35.91     | 15.36             | 11.19              | 4.00      | 0.94    | 27.30       | 14.76            | 0.59         |
| 1450  | 16.49 | 35.99     | 16.11             | 11.95              | 4.33      | 0.95    | 26.52       | 14.28            | 0.57         |
| 1500  | 15.93 | 36.13     | 16.61             | 12.62              | 4.75      | 0.96    | 26.16       | 14.06            | 0.60         |

## 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: Vd = 5.25V, Id = 54.52mA @ Temperature = +25°C

| FREQ  | Gain  | Isolation | Input Return Loss | Output Return Loss | Stability |         | IP-3 Output | 1dB Comp. Output | Noise Figure |
|-------|-------|-----------|-------------------|--------------------|-----------|---------|-------------|------------------|--------------|
|       |       |           |                   |                    | K         | Measure |             |                  |              |
| (MHz) | (dB)  | (dB)      | (dB)              | (dB)               | K         | Measure | (dBm)       | (dBm)            | (dB)         |
| 700   | 20.13 | 41.43     | 4.08              | 5.05               | 2.83      | 0.89    | 25.14       | 13.97            | 0.56         |
| 800   | 20.49 | 39.18     | 5.88              | 5.69               | 2.64      | 0.85    | 26.25       | 14.79            | 0.47         |
| 850   | 20.50 | 38.39     | 6.79              | 6.03               | 2.61      | 0.84    | 26.64       | 15.01            | 0.47         |
| 900   | 20.42 | 37.79     | 7.64              | 6.39               | 2.60      | 0.84    | 27.02       | 15.18            | 0.46         |
| 910   | 20.38 | 37.69     | 7.81              | 6.46               | 2.61      | 0.84    | 27.16       | 15.29            | 0.40         |
| 920   | 20.35 | 37.59     | 7.96              | 6.53               | 2.61      | 0.84    | 27.21       | 15.20            | 0.50         |
| 930   | 20.31 | 37.50     | 8.12              | 6.60               | 2.62      | 0.84    | 27.21       | 15.24            | 0.52         |
| 940   | 20.27 | 37.41     | 8.29              | 6.67               | 2.62      | 0.84    | 27.36       | 15.22            | 0.44         |
| 950   | 20.24 | 37.34     | 8.44              | 6.74               | 2.63      | 0.84    | 27.55       | 15.40            | 0.44         |
| 960   | 20.20 | 37.25     | 8.59              | 6.81               | 2.64      | 0.84    | 27.43       | 15.48            | 0.48         |
| 970   | 20.15 | 37.19     | 8.74              | 6.89               | 2.65      | 0.84    | 27.22       | 15.47            | 0.42         |
| 980   | 20.10 | 37.11     | 8.90              | 6.96               | 2.67      | 0.84    | 27.21       | 15.22            | 0.43         |
| 990   | 20.06 | 37.04     | 9.04              | 7.03               | 2.68      | 0.85    | 27.43       | 15.05            | 0.43         |
| 1000  | 20.01 | 36.97     | 9.19              | 7.10               | 2.69      | 0.85    | 27.89       | 15.27            | 0.47         |
| 1010  | 19.96 | 36.92     | 9.33              | 7.18               | 2.70      | 0.85    | 27.87       | 15.70            | 0.46         |
| 1020  | 19.90 | 36.86     | 9.46              | 7.25               | 2.72      | 0.85    | 27.56       | 15.71            | 0.48         |
| 1030  | 19.85 | 36.80     | 9.61              | 7.31               | 2.73      | 0.85    | 27.53       | 15.42            | 0.51         |
| 1040  | 19.79 | 36.75     | 9.75              | 7.38               | 2.75      | 0.85    | 27.71       | 15.35            | 0.45         |
| 1050  | 19.73 | 36.71     | 9.89              | 7.47               | 2.77      | 0.86    | 27.87       | 15.44            | 0.45         |
| 1060  | 19.67 | 36.67     | 10.02             | 7.53               | 2.79      | 0.86    | 27.80       | 15.50            | 0.45         |
| 1070  | 19.61 | 36.61     | 10.17             | 7.61               | 2.80      | 0.86    | 27.68       | 15.31            | 0.44         |
| 1080  | 19.55 | 36.57     | 10.30             | 7.68               | 2.82      | 0.86    | 27.66       | 15.31            | 0.47         |
| 1090  | 19.49 | 36.53     | 10.44             | 7.76               | 2.84      | 0.86    | 27.68       | 15.24            | 0.43         |
| 1100  | 19.43 | 36.50     | 10.56             | 7.83               | 2.87      | 0.87    | 27.75       | 15.16            | 0.50         |
| 1110  | 19.36 | 36.46     | 10.70             | 7.91               | 2.89      | 0.87    | 27.90       | 15.32            | 0.46         |
| 1120  | 19.30 | 36.42     | 10.83             | 7.98               | 2.91      | 0.87    | 27.89       | 15.62            | 0.45         |
| 1130  | 19.23 | 36.39     | 10.97             | 8.07               | 2.93      | 0.87    | 27.57       | 15.57            | 0.45         |
| 1140  | 19.16 | 36.35     | 11.09             | 8.15               | 2.96      | 0.88    | 27.25       | 15.17            | 0.46         |
| 1150  | 19.10 | 36.31     | 11.23             | 8.24               | 2.98      | 0.88    | 27.29       | 15.02            | 0.44         |
| 1160  | 19.03 | 36.31     | 11.38             | 8.32               | 3.01      | 0.88    | 27.61       | 15.06            | 0.50         |
| 1170  | 18.96 | 36.28     | 11.52             | 8.40               | 3.04      | 0.88    | 27.56       | 15.12            | 0.54         |
| 1180  | 18.89 | 36.26     | 11.65             | 8.50               | 3.07      | 0.89    | 27.33       | 15.11            | 0.53         |
| 1190  | 18.82 | 36.23     | 11.79             | 8.57               | 3.10      | 0.89    | 27.27       | 15.02            | 0.41         |
| 1200  | 18.75 | 36.21     | 11.93             | 8.67               | 3.13      | 0.89    | 27.43       | 15.11            | 0.50         |
| 1250  | 18.38 | 36.12     | 12.67             | 9.16               | 3.29      | 0.90    | 26.86       | 14.74            | 0.52         |
| 1300  | 17.99 | 36.04     | 13.43             | 9.75               | 3.48      | 0.92    | 26.31       | 14.47            | 0.59         |
| 1350  | 17.58 | 36.03     | 14.24             | 10.41              | 3.71      | 0.93    | 25.55       | 14.06            | 0.55         |
| 1400  | 17.12 | 36.04     | 15.02             | 11.17              | 3.98      | 0.95    | 25.18       | 13.81            | 0.57         |
| 1450  | 16.62 | 36.11     | 15.62             | 11.93              | 4.32      | 0.96    | 24.11       | 13.36            | 0.60         |
| 1500  | 16.05 | 36.26     | 16.00             | 12.62              | 4.73      | 0.97    | 23.78       | 13.11            | 0.54         |

## 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: Vd = 5.00V, Id = 53.00mA @ Temperature = -45°C

| FREQ  | Gain  | Isolation | Input Return Loss | Output Return Loss | Stability |         | IP-3 Output | 1dB Comp. Output | Noise Figure |
|-------|-------|-----------|-------------------|--------------------|-----------|---------|-------------|------------------|--------------|
|       |       |           |                   |                    | K         | Measure |             |                  |              |
| (MHz) | (dB)  | (dB)      | (dB)              | (dB)               | K         | Measure | (dBm)       | (dBm)            | (dB)         |
| 700   | 20.62 | 41.43     | 3.97              | 4.75               | 2.61      | 0.86    | 24.40       | 13.78            | 0.36         |
| 800   | 20.97 | 39.11     | 5.66              | 5.44               | 2.45      | 0.83    | 25.77       | 15.33            | 0.33         |
| 850   | 20.99 | 38.29     | 6.53              | 5.86               | 2.42      | 0.83    | 26.27       | 15.82            | 0.30         |
| 900   | 20.94 | 37.63     | 7.33              | 6.22               | 2.40      | 0.83    | 26.80       | 16.19            | 0.31         |
| 910   | 20.91 | 37.53     | 7.49              | 6.28               | 2.40      | 0.83    | 27.05       | 16.35            | 0.22         |
| 920   | 20.88 | 37.43     | 7.63              | 6.34               | 2.41      | 0.83    | 27.18       | 16.29            | 0.32         |
| 930   | 20.85 | 37.33     | 7.78              | 6.40               | 2.41      | 0.83    | 27.21       | 16.36            | 0.40         |
| 940   | 20.81 | 37.24     | 7.93              | 6.46               | 2.41      | 0.83    | 27.40       | 16.42            | 0.30         |
| 950   | 20.77 | 37.16     | 8.07              | 6.53               | 2.42      | 0.83    | 27.54       | 16.61            | 0.27         |
| 960   | 20.73 | 37.08     | 8.22              | 6.58               | 2.43      | 0.83    | 27.30       | 16.71            | 0.29         |
| 970   | 20.69 | 37.00     | 8.36              | 6.64               | 2.43      | 0.83    | 27.18       | 16.72            | 0.22         |
| 980   | 20.64 | 36.92     | 8.50              | 6.70               | 2.44      | 0.83    | 27.49       | 16.47            | 0.27         |
| 990   | 20.60 | 36.84     | 8.64              | 6.74               | 2.44      | 0.83    | 28.00       | 16.43            | 0.27         |
| 1000  | 20.55 | 36.78     | 8.77              | 6.80               | 2.45      | 0.83    | 28.13       | 16.70            | 0.31         |
| 1010  | 20.50 | 36.71     | 8.91              | 6.86               | 2.46      | 0.83    | 27.82       | 17.04            | 0.29         |
| 1020  | 20.44 | 36.66     | 9.05              | 6.92               | 2.48      | 0.83    | 27.58       | 16.99            | 0.31         |
| 1030  | 20.39 | 36.59     | 9.18              | 6.97               | 2.48      | 0.84    | 27.75       | 16.81            | 0.34         |
| 1040  | 20.34 | 36.54     | 9.31              | 7.02               | 2.50      | 0.84    | 28.02       | 16.79            | 0.28         |
| 1050  | 20.28 | 36.49     | 9.44              | 7.09               | 2.51      | 0.84    | 28.17       | 16.90            | 0.31         |
| 1060  | 20.22 | 36.44     | 9.58              | 7.14               | 2.53      | 0.84    | 28.18       | 16.91            | 0.27         |
| 1070  | 20.17 | 36.39     | 9.71              | 7.21               | 2.54      | 0.84    | 28.22       | 16.80            | 0.27         |
| 1080  | 20.11 | 36.34     | 9.84              | 7.27               | 2.56      | 0.84    | 28.37       | 16.83            | 0.30         |
| 1090  | 20.05 | 36.28     | 9.98              | 7.34               | 2.57      | 0.85    | 28.52       | 16.76            | 0.27         |
| 1100  | 19.99 | 36.25     | 10.10             | 7.41               | 2.59      | 0.85    | 28.62       | 16.77            | 0.33         |
| 1110  | 19.93 | 36.20     | 10.23             | 7.47               | 2.61      | 0.85    | 28.63       | 16.94            | 0.27         |
| 1120  | 19.87 | 36.17     | 10.36             | 7.54               | 2.63      | 0.85    | 28.40       | 17.13            | 0.29         |
| 1130  | 19.80 | 36.12     | 10.50             | 7.62               | 2.64      | 0.85    | 28.15       | 17.04            | 0.30         |
| 1140  | 19.74 | 36.09     | 10.62             | 7.70               | 2.66      | 0.86    | 28.18       | 16.80            | 0.30         |
| 1150  | 19.68 | 36.04     | 10.75             | 7.78               | 2.68      | 0.86    | 28.55       | 16.66            | 0.30         |
| 1160  | 19.62 | 36.03     | 10.90             | 7.86               | 2.70      | 0.86    | 28.92       | 16.68            | 0.36         |
| 1170  | 19.55 | 36.00     | 11.05             | 7.93               | 2.73      | 0.86    | 28.83       | 16.79            | 0.36         |
| 1180  | 19.49 | 35.96     | 11.19             | 8.02               | 2.75      | 0.87    | 28.72       | 16.73            | 0.37         |
| 1190  | 19.42 | 35.93     | 11.34             | 8.09               | 2.77      | 0.87    | 28.81       | 16.65            | 0.24         |
| 1200  | 19.36 | 35.90     | 11.47             | 8.19               | 2.80      | 0.87    | 28.81       | 16.77            | 0.34         |
| 1250  | 19.01 | 35.77     | 12.23             | 8.68               | 2.93      | 0.89    | 28.98       | 16.40            | 0.36         |
| 1300  | 18.65 | 35.66     | 12.99             | 9.28               | 3.08      | 0.90    | 29.01       | 16.22            | 0.40         |
| 1350  | 18.27 | 35.63     | 13.76             | 9.99               | 3.28      | 0.92    | 28.92       | 15.84            | 0.36         |
| 1400  | 17.84 | 35.59     | 14.42             | 10.81              | 3.49      | 0.94    | 29.12       | 15.59            | 0.38         |
| 1450  | 17.37 | 35.64     | 14.89             | 11.67              | 3.77      | 0.95    | 28.61       | 15.10            | 0.41         |
| 1500  | 16.83 | 35.75     | 15.13             | 12.47              | 4.11      | 0.97    | 28.49       | 14.91            | 0.36         |

## 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: Vd = 4.75V, Id = 45.61mA @ Temperature = -45°C

| FREQ  | Gain  | Isolation | Input Return Loss | Output Return Loss | Stability |         | IP-3 Output | 1dB Comp. Output | Noise Figure |
|-------|-------|-----------|-------------------|--------------------|-----------|---------|-------------|------------------|--------------|
|       |       |           |                   |                    | K         | Measure |             |                  |              |
| (MHz) | (dB)  | (dB)      | (dB)              | (dB)               | K         | Measure | (dBm)       | (dBm)            | (dB)         |
| 700   | 20.41 | 41.35     | 3.87              | 4.77               | 2.61      | 0.87    | 23.57       | 13.54            | 0.38         |
| 800   | 20.79 | 39.05     | 5.56              | 5.46               | 2.45      | 0.84    | 24.89       | 15.28            | 0.36         |
| 850   | 20.82 | 38.23     | 6.43              | 5.88               | 2.43      | 0.83    | 25.37       | 15.79            | 0.34         |
| 900   | 20.77 | 37.58     | 7.25              | 6.24               | 2.41      | 0.83    | 25.89       | 16.21            | 0.32         |
| 910   | 20.75 | 37.47     | 7.41              | 6.31               | 2.41      | 0.83    | 26.15       | 16.34            | 0.23         |
| 920   | 20.72 | 37.37     | 7.56              | 6.37               | 2.42      | 0.83    | 26.28       | 16.34            | 0.32         |
| 930   | 20.68 | 37.28     | 7.72              | 6.44               | 2.42      | 0.83    | 26.31       | 16.37            | 0.39         |
| 940   | 20.65 | 37.19     | 7.87              | 6.50               | 2.42      | 0.83    | 26.49       | 16.45            | 0.30         |
| 950   | 20.61 | 37.11     | 8.02              | 6.56               | 2.43      | 0.83    | 26.63       | 16.64            | 0.29         |
| 960   | 20.57 | 37.02     | 8.17              | 6.62               | 2.44      | 0.83    | 26.39       | 16.74            | 0.34         |
| 970   | 20.53 | 36.95     | 8.32              | 6.67               | 2.44      | 0.83    | 26.27       | 16.74            | 0.25         |
| 980   | 20.48 | 36.88     | 8.46              | 6.73               | 2.45      | 0.83    | 26.61       | 16.50            | 0.28         |
| 990   | 20.44 | 36.80     | 8.61              | 6.78               | 2.46      | 0.83    | 27.09       | 16.45            | 0.24         |
| 1000  | 20.39 | 36.73     | 8.74              | 6.84               | 2.47      | 0.83    | 27.22       | 16.74            | 0.31         |
| 1010  | 20.34 | 36.67     | 8.89              | 6.89               | 2.48      | 0.83    | 26.93       | 17.05            | 0.25         |
| 1020  | 20.29 | 36.60     | 9.03              | 6.95               | 2.49      | 0.84    | 26.68       | 16.99            | 0.33         |
| 1030  | 20.24 | 36.54     | 9.16              | 7.01               | 2.50      | 0.84    | 26.86       | 16.82            | 0.35         |
| 1040  | 20.18 | 36.49     | 9.31              | 7.07               | 2.51      | 0.84    | 27.13       | 16.82            | 0.31         |
| 1050  | 20.13 | 36.44     | 9.44              | 7.13               | 2.53      | 0.84    | 27.28       | 16.92            | 0.27         |
| 1060  | 20.07 | 36.40     | 9.58              | 7.18               | 2.54      | 0.84    | 27.29       | 16.91            | 0.32         |
| 1070  | 20.02 | 36.35     | 9.72              | 7.25               | 2.56      | 0.84    | 27.34       | 16.82            | 0.28         |
| 1080  | 19.96 | 36.30     | 9.86              | 7.31               | 2.57      | 0.84    | 27.48       | 16.83            | 0.30         |
| 1090  | 19.90 | 36.25     | 10.00             | 7.38               | 2.59      | 0.85    | 27.65       | 16.78            | 0.27         |
| 1100  | 19.84 | 36.21     | 10.13             | 7.44               | 2.61      | 0.85    | 27.76       | 16.80            | 0.31         |
| 1110  | 19.78 | 36.17     | 10.27             | 7.51               | 2.63      | 0.85    | 27.72       | 16.97            | 0.29         |
| 1120  | 19.72 | 36.13     | 10.41             | 7.59               | 2.65      | 0.85    | 27.51       | 17.13            | 0.30         |
| 1130  | 19.65 | 36.09     | 10.55             | 7.66               | 2.66      | 0.86    | 27.26       | 17.04            | 0.30         |
| 1140  | 19.59 | 36.05     | 10.68             | 7.74               | 2.68      | 0.86    | 27.30       | 16.83            | 0.29         |
| 1150  | 19.53 | 36.00     | 10.82             | 7.82               | 2.70      | 0.86    | 27.69       | 16.68            | 0.28         |
| 1160  | 19.47 | 35.99     | 10.98             | 7.90               | 2.73      | 0.86    | 28.03       | 16.70            | 0.35         |
| 1170  | 19.41 | 35.96     | 11.13             | 7.98               | 2.75      | 0.87    | 27.94       | 16.80            | 0.34         |
| 1180  | 19.34 | 35.93     | 11.28             | 8.07               | 2.77      | 0.87    | 27.82       | 16.75            | 0.30         |
| 1190  | 19.28 | 35.90     | 11.44             | 8.14               | 2.80      | 0.87    | 27.92       | 16.66            | 0.25         |
| 1200  | 19.21 | 35.87     | 11.58             | 8.24               | 2.82      | 0.87    | 27.94       | 16.78            | 0.34         |
| 1250  | 18.87 | 35.74     | 12.38             | 8.73               | 2.95      | 0.89    | 28.14       | 16.39            | 0.35         |
| 1300  | 18.51 | 35.64     | 13.21             | 9.33               | 3.11      | 0.90    | 28.20       | 16.23            | 0.38         |
| 1350  | 18.13 | 35.60     | 14.06             | 10.04              | 3.31      | 0.92    | 28.14       | 15.86            | 0.36         |
| 1400  | 17.70 | 35.58     | 14.83             | 10.86              | 3.53      | 0.94    | 28.37       | 15.64            | 0.38         |
| 1450  | 17.23 | 35.62     | 15.43             | 11.72              | 3.80      | 0.95    | 27.95       | 15.15            | 0.41         |
| 1500  | 16.69 | 35.73     | 15.79             | 12.51              | 4.14      | 0.96    | 27.90       | 14.98            | 0.38         |

## 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: Vd = 5.25V, Id = 54.05mA @ Temperature = -45°C

| FREQ  | Gain  | Isolation | Input Return Loss | Output Return Loss | Stability |         | IP-3 Output | 1dB Comp. Output | Noise Figure |
|-------|-------|-----------|-------------------|--------------------|-----------|---------|-------------|------------------|--------------|
|       |       |           |                   |                    | K         | Measure |             |                  |              |
| (MHz) | (dB)  | (dB)      | (dB)              | (dB)               | K         | Measure | (dBm)       | (dBm)            | (dB)         |
| 700   | 20.63 | 41.49     | 3.99              | 4.75               | 2.62      | 0.86    | 25.24       | 14.30            | 0.38         |
| 800   | 20.97 | 39.18     | 5.68              | 5.44               | 2.45      | 0.83    | 26.61       | 15.55            | 0.32         |
| 850   | 21.00 | 38.35     | 6.54              | 5.85               | 2.42      | 0.83    | 27.10       | 15.95            | 0.32         |
| 900   | 20.94 | 37.69     | 7.35              | 6.21               | 2.40      | 0.83    | 27.63       | 16.29            | 0.28         |
| 910   | 20.91 | 37.58     | 7.51              | 6.28               | 2.40      | 0.83    | 27.85       | 16.41            | 0.24         |
| 920   | 20.88 | 37.48     | 7.65              | 6.34               | 2.40      | 0.83    | 27.98       | 16.34            | 0.30         |
| 930   | 20.85 | 37.38     | 7.80              | 6.40               | 2.40      | 0.83    | 28.04       | 16.39            | 0.35         |
| 940   | 20.81 | 37.29     | 7.95              | 6.46               | 2.40      | 0.83    | 28.24       | 16.45            | 0.27         |
| 950   | 20.77 | 37.20     | 8.09              | 6.52               | 2.41      | 0.83    | 28.35       | 16.65            | 0.27         |
| 960   | 20.73 | 37.12     | 8.24              | 6.58               | 2.42      | 0.83    | 28.12       | 16.72            | 0.28         |
| 970   | 20.69 | 37.04     | 8.38              | 6.64               | 2.42      | 0.83    | 27.98       | 16.76            | 0.24         |
| 980   | 20.64 | 36.97     | 8.52              | 6.69               | 2.43      | 0.83    | 28.31       | 16.46            | 0.28         |
| 990   | 20.60 | 36.89     | 8.66              | 6.74               | 2.43      | 0.83    | 28.79       | 16.38            | 0.22         |
| 1000  | 20.55 | 36.83     | 8.80              | 6.79               | 2.44      | 0.83    | 28.95       | 16.65            | 0.33         |
| 1010  | 20.50 | 36.76     | 8.94              | 6.86               | 2.45      | 0.83    | 28.64       | 17.03            | 0.30         |
| 1020  | 20.44 | 36.69     | 9.06              | 6.91               | 2.46      | 0.83    | 28.35       | 17.01            | 0.29         |
| 1030  | 20.39 | 36.63     | 9.19              | 6.97               | 2.47      | 0.84    | 28.51       | 16.78            | 0.33         |
| 1040  | 20.34 | 36.57     | 9.33              | 7.02               | 2.49      | 0.84    | 28.80       | 16.78            | 0.30         |
| 1050  | 20.28 | 36.53     | 9.46              | 7.09               | 2.50      | 0.84    | 28.95       | 16.85            | 0.28         |
| 1060  | 20.22 | 36.48     | 9.60              | 7.14               | 2.52      | 0.84    | 28.96       | 16.89            | 0.24         |
| 1070  | 20.17 | 36.42     | 9.73              | 7.20               | 2.53      | 0.84    | 29.00       | 16.75            | 0.26         |
| 1080  | 20.10 | 36.37     | 9.86              | 7.27               | 2.54      | 0.84    | 29.14       | 16.77            | 0.31         |
| 1090  | 20.05 | 36.33     | 10.00             | 7.34               | 2.56      | 0.85    | 29.30       | 16.72            | 0.27         |
| 1100  | 19.99 | 36.29     | 10.12             | 7.40               | 2.57      | 0.85    | 29.44       | 16.71            | 0.32         |
| 1110  | 19.93 | 36.24     | 10.26             | 7.47               | 2.59      | 0.85    | 29.42       | 16.90            | 0.30         |
| 1120  | 19.86 | 36.20     | 10.38             | 7.54               | 2.61      | 0.85    | 29.20       | 17.10            | 0.30         |
| 1130  | 19.80 | 36.17     | 10.52             | 7.62               | 2.63      | 0.85    | 28.90       | 17.01            | 0.25         |
| 1140  | 19.73 | 36.12     | 10.64             | 7.70               | 2.65      | 0.86    | 28.93       | 16.75            | 0.28         |
| 1150  | 19.67 | 36.07     | 10.78             | 7.77               | 2.66      | 0.86    | 29.31       | 16.59            | 0.29         |
| 1160  | 19.62 | 36.06     | 10.92             | 7.85               | 2.69      | 0.86    | 29.64       | 16.62            | 0.36         |
| 1170  | 19.55 | 36.03     | 11.07             | 7.93               | 2.71      | 0.87    | 29.59       | 16.71            | 0.34         |
| 1180  | 19.48 | 36.00     | 11.21             | 8.02               | 2.73      | 0.87    | 29.46       | 16.68            | 0.34         |
| 1190  | 19.42 | 35.97     | 11.35             | 8.10               | 2.76      | 0.87    | 29.52       | 16.59            | 0.23         |
| 1200  | 19.35 | 35.94     | 11.50             | 8.19               | 2.78      | 0.87    | 29.57       | 16.68            | 0.30         |
| 1250  | 19.01 | 35.80     | 12.25             | 8.68               | 2.91      | 0.89    | 29.68       | 16.34            | 0.35         |
| 1300  | 18.65 | 35.70     | 13.02             | 9.29               | 3.06      | 0.91    | 29.69       | 16.13            | 0.38         |
| 1350  | 18.27 | 35.65     | 13.77             | 10.00              | 3.25      | 0.92    | 29.54       | 15.74            | 0.33         |
| 1400  | 17.84 | 35.62     | 14.43             | 10.82              | 3.47      | 0.94    | 29.64       | 15.48            | 0.37         |
| 1450  | 17.37 | 35.67     | 14.89             | 11.68              | 3.74      | 0.96    | 28.93       | 14.99            | 0.37         |
| 1500  | 16.83 | 35.78     | 15.13             | 12.48              | 4.08      | 0.97    | 28.65       | 14.80            | 0.36         |



## 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: Vd = 5.00V, Id = 49.62mA @ Temperature = +85°C

| FREQ  | Gain  | Isolation | Input Return Loss | Output Return Loss | Stability |         | IP-3 Output | 1dB Comp. Output | Noise Figure |
|-------|-------|-----------|-------------------|--------------------|-----------|---------|-------------|------------------|--------------|
|       |       |           |                   |                    | K         | Measure |             |                  |              |
| (MHz) | (dB)  | (dB)      | (dB)              | (dB)               | K         | Measure | (dBm)       | (dBm)            | (dB)         |
| 700   | 19.45 | 41.34     | 4.00              | 5.22               | 3.01      | 0.92    | 23.08       | 12.07            | 0.73         |
| 800   | 19.88 | 39.13     | 5.78              | 5.87               | 2.82      | 0.87    | 23.86       | 12.86            | 0.69         |
| 850   | 19.90 | 38.38     | 6.68              | 6.24               | 2.79      | 0.86    | 24.06       | 13.10            | 0.65         |
| 900   | 19.81 | 37.82     | 7.55              | 6.64               | 2.81      | 0.86    | 24.28       | 13.29            | 0.63         |
| 910   | 19.78 | 37.73     | 7.72              | 6.72               | 2.82      | 0.86    | 24.34       | 13.37            | 0.57         |
| 920   | 19.75 | 37.64     | 7.89              | 6.80               | 2.83      | 0.86    | 24.36       | 13.27            | 0.67         |
| 930   | 19.71 | 37.56     | 8.05              | 6.89               | 2.84      | 0.86    | 24.33       | 13.32            | 0.73         |
| 940   | 19.67 | 37.48     | 8.22              | 6.96               | 2.85      | 0.86    | 24.43       | 13.30            | 0.63         |
| 950   | 19.63 | 37.41     | 8.38              | 7.04               | 2.87      | 0.86    | 24.63       | 13.48            | 0.62         |
| 960   | 19.59 | 37.34     | 8.54              | 7.12               | 2.88      | 0.86    | 24.59       | 13.53            | 0.66         |
| 970   | 19.55 | 37.27     | 8.70              | 7.20               | 2.90      | 0.87    | 24.36       | 13.57            | 0.58         |
| 980   | 19.50 | 37.20     | 8.85              | 7.28               | 2.91      | 0.87    | 24.18       | 13.31            | 0.64         |
| 990   | 19.45 | 37.14     | 9.01              | 7.36               | 2.93      | 0.87    | 24.28       | 13.18            | 0.58         |
| 1000  | 19.40 | 37.08     | 9.16              | 7.43               | 2.95      | 0.87    | 24.81       | 13.31            | 0.69         |
| 1010  | 19.35 | 37.03     | 9.31              | 7.51               | 2.96      | 0.87    | 24.94       | 13.80            | 0.64         |
| 1020  | 19.29 | 36.98     | 9.46              | 7.59               | 2.98      | 0.87    | 24.64       | 13.81            | 0.65         |
| 1030  | 19.23 | 36.93     | 9.61              | 7.65               | 3.00      | 0.87    | 24.50       | 13.54            | 0.66         |
| 1040  | 19.18 | 36.88     | 9.77              | 7.73               | 3.03      | 0.87    | 24.60       | 13.49            | 0.64         |
| 1050  | 19.11 | 36.84     | 9.91              | 7.81               | 3.05      | 0.88    | 24.74       | 13.58            | 0.65         |
| 1060  | 19.05 | 36.81     | 10.06             | 7.88               | 3.08      | 0.88    | 24.65       | 13.63            | 0.61         |
| 1070  | 18.99 | 36.77     | 10.21             | 7.96               | 3.10      | 0.88    | 24.51       | 13.47            | 0.62         |
| 1080  | 18.92 | 36.73     | 10.36             | 8.04               | 3.13      | 0.88    | 24.46       | 13.49            | 0.63         |
| 1090  | 18.86 | 36.70     | 10.51             | 8.11               | 3.15      | 0.88    | 24.45       | 13.39            | 0.62         |
| 1100  | 18.79 | 36.67     | 10.64             | 8.18               | 3.18      | 0.88    | 24.50       | 13.36            | 0.62         |
| 1110  | 18.73 | 36.64     | 10.79             | 8.26               | 3.21      | 0.89    | 24.67       | 13.51            | 0.64         |
| 1120  | 18.66 | 36.61     | 10.93             | 8.33               | 3.24      | 0.89    | 24.72       | 13.77            | 0.64         |
| 1130  | 18.58 | 36.59     | 11.08             | 8.41               | 3.27      | 0.89    | 24.45       | 13.68            | 0.61         |
| 1140  | 18.52 | 36.56     | 11.22             | 8.49               | 3.29      | 0.89    | 24.11       | 13.37            | 0.64         |
| 1150  | 18.45 | 36.53     | 11.37             | 8.57               | 3.33      | 0.89    | 24.09       | 13.26            | 0.64         |
| 1160  | 18.38 | 36.53     | 11.54             | 8.65               | 3.36      | 0.89    | 24.32       | 13.33            | 0.72         |
| 1170  | 18.30 | 36.50     | 11.69             | 8.72               | 3.40      | 0.90    | 24.29       | 13.31            | 0.70         |
| 1180  | 18.23 | 36.48     | 11.86             | 8.81               | 3.43      | 0.90    | 24.10       | 13.18            | 0.66         |
| 1190  | 18.16 | 36.47     | 12.01             | 8.89               | 3.47      | 0.90    | 24.05       | 13.18            | 0.57         |
| 1200  | 18.08 | 36.46     | 12.17             | 8.98               | 3.51      | 0.90    | 24.18       | 13.26            | 0.68         |
| 1250  | 17.69 | 36.40     | 13.01             | 9.45               | 3.71      | 0.91    | 23.64       | 12.91            | 0.71         |
| 1300  | 17.28 | 36.35     | 13.89             | 9.99               | 3.94      | 0.92    | 23.22       | 12.68            | 0.78         |
| 1350  | 16.85 | 36.38     | 14.85             | 10.60              | 4.23      | 0.93    | 22.71       | 12.27            | 0.72         |
| 1400  | 16.37 | 36.42     | 15.84             | 11.26              | 4.56      | 0.94    | 22.46       | 11.98            | 0.79         |
| 1450  | 15.85 | 36.53     | 16.70             | 11.94              | 4.97      | 0.95    | 21.87       | 11.54            | 0.80         |
| 1500  | 15.26 | 36.69     | 17.32             | 12.49              | 5.48      | 0.96    | 21.66       | 11.42            | 0.75         |

## 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: Vd = 4.75V, Id = 45.20mA @ Temperature = +85°C

| FREQ  | Gain  | Isolation | Input Return Loss | Output Return Loss | Stability |         | IP-3 Output | 1dB Comp. Output | Noise Figure |
|-------|-------|-----------|-------------------|--------------------|-----------|---------|-------------|------------------|--------------|
|       |       |           |                   |                    | K         | Measure |             |                  |              |
| (MHz) | (dB)  | (dB)      | (dB)              | (dB)               | K         | Measure | (dBm)       | (dBm)            | (dB)         |
| 700   | 19.28 | 41.18     | 3.89              | 5.22               | 2.97      | 0.92    | 22.77       | 11.90            | 0.76         |
| 800   | 19.73 | 38.98     | 5.65              | 5.87               | 2.79      | 0.87    | 23.74       | 12.86            | 0.65         |
| 850   | 19.76 | 38.24     | 6.55              | 6.25               | 2.77      | 0.86    | 24.04       | 13.24            | 0.63         |
| 900   | 19.69 | 37.68     | 7.42              | 6.66               | 2.80      | 0.86    | 24.35       | 13.43            | 0.65         |
| 910   | 19.65 | 37.59     | 7.59              | 6.74               | 2.81      | 0.86    | 24.49       | 13.57            | 0.57         |
| 920   | 19.63 | 37.51     | 7.76              | 6.82               | 2.82      | 0.86    | 24.53       | 13.52            | 0.64         |
| 930   | 19.59 | 37.43     | 7.93              | 6.91               | 2.83      | 0.86    | 24.52       | 13.53            | 0.74         |
| 940   | 19.55 | 37.35     | 8.10              | 6.98               | 2.84      | 0.87    | 24.66       | 13.55            | 0.66         |
| 950   | 19.51 | 37.27     | 8.26              | 7.06               | 2.86      | 0.87    | 24.84       | 13.75            | 0.63         |
| 960   | 19.47 | 37.22     | 8.42              | 7.14               | 2.88      | 0.87    | 24.73       | 13.81            | 0.66         |
| 970   | 19.43 | 37.15     | 8.58              | 7.22               | 2.89      | 0.87    | 24.54       | 13.86            | 0.55         |
| 980   | 19.38 | 37.08     | 8.74              | 7.30               | 2.91      | 0.87    | 24.55       | 13.56            | 0.62         |
| 990   | 19.33 | 37.02     | 8.89              | 7.38               | 2.92      | 0.87    | 24.75       | 13.44            | 0.57         |
| 1000  | 19.28 | 36.96     | 9.05              | 7.46               | 2.94      | 0.87    | 25.18       | 13.73            | 0.66         |
| 1010  | 19.23 | 36.91     | 9.20              | 7.53               | 2.96      | 0.87    | 25.17       | 14.06            | 0.66         |
| 1020  | 19.17 | 36.86     | 9.35              | 7.61               | 2.98      | 0.87    | 24.90       | 14.08            | 0.67         |
| 1030  | 19.12 | 36.82     | 9.50              | 7.68               | 3.00      | 0.88    | 24.86       | 13.87            | 0.69         |
| 1040  | 19.06 | 36.77     | 9.66              | 7.75               | 3.02      | 0.88    | 25.03       | 13.95            | 0.66         |
| 1050  | 19.00 | 36.73     | 9.81              | 7.84               | 3.05      | 0.88    | 25.17       | 13.93            | 0.63         |
| 1060  | 18.94 | 36.69     | 9.97              | 7.91               | 3.07      | 0.88    | 25.11       | 13.95            | 0.64         |
| 1070  | 18.88 | 36.66     | 10.11             | 7.99               | 3.10      | 0.88    | 25.01       | 13.87            | 0.61         |
| 1080  | 18.81 | 36.63     | 10.27             | 8.06               | 3.13      | 0.88    | 25.01       | 13.86            | 0.66         |
| 1090  | 18.75 | 36.59     | 10.41             | 8.14               | 3.15      | 0.88    | 25.04       | 13.74            | 0.62         |
| 1100  | 18.68 | 36.56     | 10.56             | 8.21               | 3.18      | 0.89    | 25.08       | 13.78            | 0.61         |
| 1110  | 18.62 | 36.54     | 10.71             | 8.28               | 3.21      | 0.89    | 25.19       | 13.94            | 0.63         |
| 1120  | 18.55 | 36.51     | 10.86             | 8.36               | 3.24      | 0.89    | 25.17       | 14.16            | 0.67         |
| 1130  | 18.48 | 36.49     | 11.01             | 8.43               | 3.27      | 0.89    | 24.92       | 14.10            | 0.62         |
| 1140  | 18.41 | 36.45     | 11.15             | 8.52               | 3.30      | 0.89    | 24.69       | 13.82            | 0.65         |
| 1150  | 18.34 | 36.42     | 11.31             | 8.60               | 3.33      | 0.89    | 24.78       | 13.68            | 0.64         |
| 1160  | 18.27 | 36.43     | 11.47             | 8.67               | 3.37      | 0.89    | 25.04       | 13.75            | 0.69         |
| 1170  | 18.20 | 36.40     | 11.63             | 8.76               | 3.40      | 0.90    | 24.97       | 13.78            | 0.72         |
| 1180  | 18.12 | 36.39     | 11.80             | 8.84               | 3.44      | 0.90    | 24.79       | 13.85            | 0.71         |
| 1190  | 18.05 | 36.38     | 11.95             | 8.91               | 3.48      | 0.90    | 24.78       | 13.74            | 0.57         |
| 1200  | 17.97 | 36.36     | 12.12             | 9.01               | 3.51      | 0.90    | 24.89       | 13.77            | 0.69         |
| 1250  | 17.59 | 36.31     | 12.98             | 9.47               | 3.72      | 0.91    | 24.48       | 13.52            | 0.71         |
| 1300  | 17.18 | 36.27     | 13.90             | 10.02              | 3.95      | 0.92    | 24.10       | 13.21            | 0.78         |
| 1350  | 16.74 | 36.31     | 14.92             | 10.62              | 4.25      | 0.93    | 23.59       | 12.83            | 0.72         |
| 1400  | 16.27 | 36.34     | 15.97             | 11.29              | 4.58      | 0.94    | 23.35       | 12.68            | 0.75         |
| 1450  | 15.75 | 36.45     | 16.96             | 11.94              | 4.99      | 0.95    | 22.71       | 12.27            | 0.77         |
| 1500  | 15.16 | 36.63     | 17.72             | 12.51              | 5.51      | 0.96    | 22.45       | 12.10            | 0.78         |



## 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: Vd = 5.25V, Id = 54.25mA @ Temperature = +85°C

| FREQ  | Gain  | Isolation | Input Return Loss | Output Return Loss | Stability |         | IP-3 Output | 1dB Comp. Output | Noise Figure |
|-------|-------|-----------|-------------------|--------------------|-----------|---------|-------------|------------------|--------------|
|       |       |           |                   |                    | K         | Measure |             |                  |              |
| (MHz) | (dB)  | (dB)      | (dB)              | (dB)               | K         | Measure | (dBm)       | (dBm)            | (dB)         |
| 700   | 19.56 | 41.51     | 4.08              | 5.23               | 3.05      | 0.91    | 22.99       | 12.03            | 0.70         |
| 800   | 19.96 | 39.29     | 5.87              | 5.87               | 2.85      | 0.87    | 23.49       | 12.64            | 0.71         |
| 850   | 19.98 | 38.52     | 6.77              | 6.23               | 2.82      | 0.86    | 23.55       | 12.85            | 0.67         |
| 900   | 19.89 | 37.96     | 7.63              | 6.63               | 2.84      | 0.86    | 23.65       | 12.95            | 0.64         |
| 910   | 19.85 | 37.86     | 7.80              | 6.72               | 2.84      | 0.86    | 23.66       | 12.91            | 0.54         |
| 920   | 19.82 | 37.77     | 7.97              | 6.79               | 2.85      | 0.86    | 23.64       | 12.84            | 0.64         |
| 930   | 19.79 | 37.70     | 8.13              | 6.87               | 2.86      | 0.86    | 23.61       | 12.86            | 0.78         |
| 940   | 19.74 | 37.61     | 8.30              | 6.95               | 2.87      | 0.86    | 23.68       | 12.84            | 0.62         |
| 950   | 19.71 | 37.55     | 8.46              | 7.03               | 2.89      | 0.86    | 23.87       | 13.06            | 0.60         |
| 960   | 19.66 | 37.48     | 8.62              | 7.10               | 2.90      | 0.86    | 23.90       | 13.19            | 0.64         |
| 970   | 19.62 | 37.40     | 8.77              | 7.19               | 2.91      | 0.86    | 23.64       | 13.19            | 0.55         |
| 980   | 19.57 | 37.33     | 8.92              | 7.27               | 2.93      | 0.87    | 23.35       | 12.79            | 0.59         |
| 990   | 19.52 | 37.28     | 9.07              | 7.34               | 2.95      | 0.87    | 23.37       | 12.63            | 0.58         |
| 1000  | 19.47 | 37.21     | 9.22              | 7.42               | 2.96      | 0.87    | 23.92       | 12.89            | 0.68         |
| 1010  | 19.42 | 37.16     | 9.37              | 7.50               | 2.98      | 0.87    | 24.14       | 13.26            | 0.61         |
| 1020  | 19.36 | 37.10     | 9.52              | 7.57               | 3.00      | 0.87    | 23.85       | 13.28            | 0.63         |
| 1030  | 19.30 | 37.06     | 9.66              | 7.64               | 3.02      | 0.87    | 23.63       | 13.02            | 0.68         |
| 1040  | 19.25 | 37.01     | 9.81              | 7.71               | 3.04      | 0.87    | 23.69       | 12.97            | 0.63         |
| 1050  | 19.18 | 36.96     | 9.96              | 7.79               | 3.06      | 0.88    | 23.81       | 13.09            | 0.63         |
| 1060  | 19.12 | 36.93     | 10.11             | 7.86               | 3.09      | 0.88    | 23.73       | 13.09            | 0.63         |
| 1070  | 19.06 | 36.89     | 10.25             | 7.93               | 3.11      | 0.88    | 23.57       | 13.01            | 0.58         |
| 1080  | 18.99 | 36.85     | 10.40             | 8.01               | 3.14      | 0.88    | 23.49       | 12.96            | 0.61         |
| 1090  | 18.93 | 36.82     | 10.54             | 8.09               | 3.16      | 0.88    | 23.45       | 12.85            | 0.64         |
| 1100  | 18.86 | 36.79     | 10.67             | 8.16               | 3.19      | 0.88    | 23.50       | 12.73            | 0.65         |
| 1110  | 18.79 | 36.75     | 10.82             | 8.23               | 3.22      | 0.89    | 23.69       | 12.94            | 0.63         |
| 1120  | 18.72 | 36.72     | 10.95             | 8.31               | 3.25      | 0.89    | 23.79       | 13.15            | 0.62         |
| 1130  | 18.65 | 36.70     | 11.10             | 8.39               | 3.28      | 0.89    | 23.52       | 13.09            | 0.62         |
| 1140  | 18.58 | 36.67     | 11.24             | 8.46               | 3.31      | 0.89    | 23.15       | 12.79            | 0.63         |
| 1150  | 18.51 | 36.64     | 11.39             | 8.54               | 3.34      | 0.89    | 23.08       | 12.52            | 0.64         |
| 1160  | 18.44 | 36.64     | 11.55             | 8.62               | 3.37      | 0.89    | 23.27       | 12.56            | 0.69         |
| 1170  | 18.36 | 36.62     | 11.70             | 8.70               | 3.41      | 0.90    | 23.27       | 12.55            | 0.67         |
| 1180  | 18.29 | 36.59     | 11.86             | 8.79               | 3.44      | 0.90    | 23.09       | 12.63            | 0.71         |
| 1190  | 18.22 | 36.58     | 12.00             | 8.86               | 3.48      | 0.90    | 23.02       | 12.50            | 0.56         |
| 1200  | 18.14 | 36.56     | 12.17             | 8.95               | 3.52      | 0.90    | 23.16       | 12.55            | 0.62         |
| 1250  | 17.75 | 36.51     | 12.97             | 9.41               | 3.72      | 0.91    | 22.61       | 12.20            | 0.70         |
| 1300  | 17.34 | 36.46     | 13.82             | 9.96               | 3.95      | 0.92    | 22.23       | 11.89            | 0.74         |
| 1350  | 16.91 | 36.48     | 14.72             | 10.55              | 4.24      | 0.93    | 21.77       | 11.44            | 0.74         |
| 1400  | 16.43 | 36.52     | 15.63             | 11.22              | 4.57      | 0.94    | 21.55       | 11.12            | 0.77         |
| 1450  | 15.91 | 36.62     | 16.39             | 11.89              | 4.98      | 0.95    | 21.07       | 10.80            | 0.76         |
| 1500  | 15.31 | 36.79     | 16.92             | 12.47              | 5.48      | 0.96    | 20.90       | 10.35            | 0.78         |