

Typical Performance Data

| Input Freq (GHz) | X3 Conversion Loss (dB) |             |         |         | X1 Harmonic Output (-dBc) |             |         |         | X2 Harmonic Output (-dBc) |             |         |         | X4 Harmonic Output (-dBc) |             |         |         |
|------------------|-------------------------|-------------|---------|---------|---------------------------|-------------|---------|---------|---------------------------|-------------|---------|---------|---------------------------|-------------|---------|---------|
|                  | Output Freq (GHz)       | Input Power |         |         | Output Freq (GHz)         | Input Power |         |         | Output Freq (GHz)         | Input Power |         |         | Output Freq (GHz)         | Input Power |         |         |
|                  |                         | +14 dBm     | +16 dBm | +18 dBm |                           | +14 dBm     | +16 dBm | +18 dBm |                           | +14 dBm     | +16 dBm | +18 dBm |                           | +14 dBm     | +16 dBm | +18 dBm |
| 6.67             | 20.00                   | 18.44       | 19.37   | 20.73   | 6.67                      | 57.35       | 62.63   | 71.56   | 13.33                     | 74.39       | 74.36   | 72.52   | 26.67                     | 27.53       | 26.87   | 25.33   |
| 7.00             | 21.00                   | 18.83       | 19.90   | 21.33   | 7.00                      | 54.68       | 57.46   | 60.38   | 14.00                     | 67.48       | 65.78   | 63.01   | 28.00                     | 24.67       | 24.15   | 23.10   |
| 7.33             | 22.00                   | 18.78       | 19.84   | 21.28   | 7.33                      | 52.63       | 54.59   | 56.47   | 14.67                     | 59.30       | 56.99   | 54.21   | 29.33                     | 24.34       | 24.03   | 23.12   |
| 7.67             | 23.00                   | 19.09       | 20.11   | 21.52   | 7.67                      | 50.66       | 52.23   | 53.60   | 15.33                     | 51.03       | 49.16   | 46.76   | 30.67                     | 25.02       | 24.90   | 24.22   |
| 8.00             | 24.00                   | 18.85       | 19.74   | 21.07   | 8.00                      | 49.97       | 51.29   | 52.27   | 16.00                     | 43.74       | 43.45   | 41.87   | 32.00                     | 25.88       | 26.05   | 25.35   |
| 8.33             | 25.00                   | 18.81       | 19.55   | 20.78   | 8.33                      | 48.65       | 49.91   | 50.76   | 16.67                     | 39.03       | 39.89   | 39.39   | 33.33                     | 26.93       | 27.80   | 27.59   |
| 8.67             | 26.00                   | 18.85       | 19.49   | 20.66   | 8.67                      | 48.01       | 49.22   | 49.93   | 17.33                     | 32.27       | 31.90   | 30.75   | 34.67                     | 30.42       | 31.52   | 31.84   |
| 9.00             | 27.00                   | 18.30       | 18.81   | 19.89   | 9.00                      | 47.43       | 48.62   | 49.20   | 18.00                     | 31.08       | 29.85   | 28.34   | 36.00                     | 34.15       | 35.63   | 36.74   |
| 9.33             | 28.00                   | 18.38       | 18.78   | 19.81   | 9.33                      | 46.29       | 47.43   | 47.89   | 18.67                     | 33.61       | 32.13   | 31.06   | 37.33                     | 37.79       | 39.53   | 42.26   |
| 9.67             | 29.00                   | 18.74       | 19.02   | 19.96   | 9.67                      | 45.58       | 46.73   | 47.11   | 19.33                     | 36.29       | 35.08   | 34.61   | 38.67                     | 42.27       | 44.91   | 47.98   |
| 10.00            | 30.00                   | 18.65       | 18.76   | 19.58   | 10.00                     | 45.31       | 46.45   | 46.76   | 20.00                     | 41.74       | 44.87   | 51.08   | 40.00                     | 40.12       | 42.63   | 42.97   |
| 10.33            | 31.00                   | 18.82       | 18.91   | 19.70   | 10.33                     | 45.39       | 46.43   | 46.64   | 20.67                     | 41.08       | 41.38   | 39.10   | 41.33                     | 42.38       | 41.73   | 39.15   |
| 10.67            | 32.00                   | 18.68       | 18.75   | 19.56   | 10.67                     | 45.60       | 46.55   | 46.63   | 21.33                     | 38.68       | 38.72   | 37.55   | 42.67                     | 45.58       | 42.80   | 39.48   |
| 11.00            | 33.00                   | 19.13       | 19.12   | 19.94   | 11.00                     | 45.18       | 46.07   | 46.01   | 22.00                     | 43.93       | 42.12   | 40.76   | 44.00                     | 40.93       | 40.67   | 39.36   |
| 11.33            | 34.00                   | 19.01       | 18.92   | 19.72   | 11.33                     | 44.62       | 45.55   | 45.43   | 22.67                     | 43.92       | 43.07   | 41.80   | 45.33                     | 41.24       | 40.15   | 38.38   |
| 11.67            | 35.00                   | 19.37       | 19.16   | 19.94   | 11.67                     | 43.80       | 44.78   | 44.64   | 23.33                     | 48.45       | 47.21   | 45.82   | 46.67                     | 39.61       | 38.99   | 37.54   |
| 12.00            | 36.00                   | 18.89       | 18.68   | 19.43   | 12.00                     | 43.34       | 44.33   | 44.18   | 24.00                     | 44.71       | 44.70   | 43.81   | 48.00                     | 42.23       | 39.01   | 36.60   |
| 12.33            | 37.00                   | 18.96       | 18.75   | 19.51   | 12.33                     | 44.54       | 45.57   | 45.41   | 24.67                     | 45.13       | 44.59   | 44.01   | 49.33                     | 42.13       | 38.57   | 35.74   |
| 12.67            | 38.00                   | 19.32       | 19.07   | 19.77   | 12.67                     | 44.46       | 45.64   | 45.64   | 25.33                     | 43.86       | 44.71   | 45.24   | 50.67                     | 41.62       | 38.33   | 35.45   |
| 13.00            | 39.00                   | 20.32       | 20.02   | 20.65   | 13.00                     | 43.36       | 44.83   | 45.17   | 26.00                     | 40.96       | 41.07   | 41.89   | 52.00                     | 41.22       | 37.63   | 34.81   |
| 13.33            | 40.00                   | 20.91       | 20.58   | 21.19   | 13.33                     | 41.22       | 42.93   | 43.57   | 26.67                     | 38.78       | 39.27   | 40.89   | 53.33                     | 43.45       | 38.17   | 34.74   |
| 13.67            | 41.00                   | 21.00       | 20.77   | 21.38   | 13.67                     | 36.69       | 38.40   | 39.18   | 27.33                     | 36.23       | 36.63   | 38.21   | 54.67                     | 46.12       | 38.51   | 34.26   |
| 14.00            | 42.00                   | 21.23       | 21.04   | 21.67   | 14.00                     | 31.92       | 33.55   | 34.24   | 28.00                     | 35.22       | 34.89   | 35.77   | 56.00                     | 55.42       | 37.80   | 31.98   |
| 14.33            | 43.00                   | 21.27       | 21.00   | 21.56   | 14.33                     | 28.32       | 29.96   | 30.63   | 28.67                     | 34.46       | 34.42   | 35.12   | 57.33                     | 43.67       | 42.98   | 35.43   |
| 14.50            | 43.50                   | 21.34       | 21.05   | 21.56   | 14.50                     | 25.82       | 27.44   | 28.12   | 29.00                     | 33.06       | 33.51   | 34.00   | 58.00                     | 41.16       | 43.66   | 42.54   |