

Frequency Mixer

TFM-2LH

Typical Performance Data

| RF (IN) (MHz) | LO (MHz) | CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB) | | | RF (IN) (MHz) | LO (MHz) | IP3 INPUT (dBm) | | | RF (IN) (MHz) | LO (MHz) | COMPRESSION @RF IN=+5dBm (dB) | | |
|---------------|----------|--|-------|-------|---------------|----------|-----------------|-------|-------|---------------|----------|-------------------------------|--------|--------|
| | | @LO (dBm) | | | | | @LO (dBm) | | | | | @LO (dBm) | | |
| | | +7 | +10 | +13 | | | +7 | +10 | +13 | | | +7 | +10 | +13 |
| 10.1 | 40.1 | 5.92 | 5.74 | 5.62 | 10.1 | 40.1 | 21.72 | 24.14 | 27.19 | 10.1 | 40.1 | -18.81 | -18.58 | -14.66 |
| 50.3 | 80.3 | 6.36 | 5.99 | 5.84 | 50.3 | 80.3 | 21.53 | 22.53 | 21.69 | 50.3 | 80.3 | -19.03 | -12.50 | -5.85 |
| 90.5 | 120.5 | 6.38 | 6.09 | 5.93 | 90.5 | 120.5 | 19.50 | 18.76 | 26.66 | 90.5 | 120.5 | -12.77 | -7.00 | -1.28 |
| 130.8 | 160.8 | 6.38 | 6.06 | 5.90 | 130.8 | 160.8 | 17.09 | 21.23 | 22.63 | 130.8 | 160.8 | -10.35 | -4.11 | 1.45 |
| 171.0 | 201.0 | 6.31 | 6.06 | 5.97 | 171.0 | 201.0 | 20.99 | 22.55 | 20.48 | 171.0 | 201.0 | -5.34 | 0.38 | 4.05 |
| 211.2 | 241.2 | 6.36 | 6.10 | 5.97 | 211.2 | 241.2 | 22.08 | 19.13 | 18.87 | 211.2 | 241.2 | -5.47 | 0.43 | 4.04 |
| 251.4 | 281.4 | 6.42 | 6.16 | 6.02 | 251.4 | 281.4 | 19.25 | 16.98 | 17.80 | 251.4 | 281.4 | -2.07 | 2.71 | 4.32 |
| 291.7 | 321.7 | 6.35 | 6.13 | 6.02 | 291.7 | 321.7 | 17.54 | 17.56 | 18.71 | 291.7 | 321.7 | -2.18 | 2.63 | 4.09 |
| 331.9 | 361.9 | 6.41 | 6.18 | 6.05 | 331.9 | 361.9 | 15.36 | 15.59 | 17.03 | 331.9 | 361.9 | -1.27 | 3.01 | 3.46 |
| 372.1 | 402.1 | 6.41 | 6.18 | 6.05 | 372.1 | 402.1 | 14.67 | 16.32 | 17.94 | 372.1 | 402.1 | -0.01 | 3.46 | 3.33 |
| 412.3 | 442.3 | 6.47 | 6.23 | 6.08 | 412.3 | 442.3 | 13.09 | 14.01 | 16.65 | 412.3 | 442.3 | -0.67 | 3.10 | 2.94 |
| 452.6 | 482.6 | 6.49 | 6.26 | 6.11 | 452.6 | 482.6 | 14.87 | 15.33 | 17.05 | 452.6 | 482.6 | 0.68 | 3.29 | 2.49 |
| 492.8 | 522.8 | 6.55 | 6.27 | 6.08 | 492.8 | 522.8 | 17.37 | 19.42 | 22.37 | 492.8 | 522.8 | 0.07 | 3.08 | 2.39 |
| 533.0 | 563.0 | 6.60 | 6.29 | 6.12 | 533.0 | 563.0 | 15.24 | 19.20 | 23.48 | 533.0 | 563.0 | 0.75 | 3.06 | 2.25 |
| 573.2 | 603.2 | 6.67 | 6.39 | 6.19 | 573.2 | 603.2 | 12.91 | 14.63 | 19.16 | 573.2 | 603.2 | 0.49 | 2.96 | 2.11 |
| 613.5 | 643.5 | 6.74 | 6.49 | 6.30 | 613.5 | 643.5 | 12.38 | 12.83 | 14.72 | 613.5 | 643.5 | 0.27 | 2.67 | 1.97 |
| 653.7 | 683.7 | 6.87 | 6.61 | 6.42 | 653.7 | 683.7 | 12.72 | 13.61 | 15.10 | 653.7 | 683.7 | 0.71 | 2.51 | 1.83 |
| 693.9 | 723.9 | 6.98 | 6.68 | 6.44 | 693.9 | 723.9 | 12.81 | 14.43 | 16.94 | 693.9 | 723.9 | 0.27 | 2.18 | 1.89 |
| 734.1 | 764.1 | 7.00 | 6.64 | 6.42 | 734.1 | 764.1 | 13.03 | 15.79 | 19.66 | 734.1 | 764.1 | 0.75 | 2.05 | 1.86 |
| 794.5 | 824.5 | 7.07 | 6.65 | 6.43 | 794.5 | 824.5 | 14.07 | 18.99 | 22.29 | 794.5 | 824.5 | 0.81 | 1.84 | 1.88 |
| 834.7 | 864.7 | 7.20 | 6.70 | 6.44 | 834.7 | 864.7 | 12.53 | 17.34 | 22.24 | 834.7 | 864.7 | 1.17 | 1.70 | 1.69 |
| 895.0 | 925.0 | 7.86 | 7.00 | 6.60 | 895.0 | 925.0 | 7.61 | 14.46 | 19.62 | 895.0 | 925.0 | 0.97 | 1.26 | 1.22 |
| 935.3 | 965.3 | 8.24 | 7.28 | 6.68 | 935.3 | 965.3 | 6.27 | 10.58 | 18.24 | 935.3 | 965.3 | 1.10 | 1.19 | 1.19 |
| 995.6 | 1025.6 | 8.75 | 7.84 | 7.03 | 995.6 | 1025.6 | 5.93 | 8.29 | 12.69 | 995.6 | 1025.6 | 0.79 | 0.85 | 0.89 |
| 1035.8 | 1065.8 | 9.01 | 8.17 | 7.34 | 1035.8 | 1065.8 | 6.77 | 8.30 | 12.12 | 1035.8 | 1065.8 | 0.57 | 0.67 | 0.75 |
| 1096.2 | 1126.2 | 9.16 | 8.36 | 7.58 | 1096.2 | 1126.2 | 6.96 | 8.55 | 10.92 | 1096.2 | 1126.2 | 0.56 | 0.60 | 0.75 |
| 1136.4 | 1166.4 | 9.18 | 8.31 | 7.49 | 1136.4 | 1166.4 | 6.28 | 7.81 | 10.36 | 1136.4 | 1166.4 | 0.58 | 0.66 | 0.90 |
| 1196.7 | 1226.7 | 9.18 | 8.16 | 7.37 | 1196.7 | 1226.7 | 6.15 | 8.94 | 12.16 | 1196.7 | 1226.7 | 0.55 | 0.82 | 1.22 |
| 1237.0 | 1267.0 | 8.91 | 7.91 | 7.37 | 1237.0 | 1267.0 | 7.57 | 11.45 | 13.72 | 1237.0 | 1267.0 | 0.62 | 1.07 | 1.37 |
| 1297.3 | 1327.3 | 8.87 | 8.18 | 7.82 | 1297.3 | 1327.3 | 10.88 | 13.51 | 14.84 | 1297.3 | 1327.3 | 0.64 | 1.21 | 1.15 |
| 1337.5 | 1367.5 | 8.94 | 8.46 | 8.16 | 1337.5 | 1367.5 | 12.62 | 14.17 | 14.80 | 1337.5 | 1367.5 | 0.78 | 1.08 | 0.98 |
| 1397.9 | 1427.9 | 9.21 | 8.88 | 8.68 | 1397.9 | 1427.9 | 14.20 | 15.27 | 15.60 | 1397.9 | 1427.9 | 0.82 | 0.70 | 0.59 |
| 1438.1 | 1468.1 | 9.33 | 9.06 | 8.88 | 1438.1 | 1468.1 | 14.46 | 15.92 | 17.18 | 1438.1 | 1468.1 | 0.75 | 0.56 | 0.44 |
| 1498.4 | 1528.4 | 9.57 | 9.32 | 9.12 | 1498.4 | 1528.4 | 15.03 | 16.17 | 19.42 | 1498.4 | 1528.4 | 0.52 | 0.37 | 0.27 |
| 1538.6 | 1568.6 | 9.74 | 9.56 | 9.40 | 1538.6 | 1568.6 | 16.61 | 15.64 | 17.72 | 1538.6 | 1568.6 | 0.48 | 0.28 | 0.20 |
| 1599.0 | 1629.0 | 10.03 | 9.84 | 9.69 | 1599.0 | 1629.0 | 21.34 | 18.93 | 17.11 | 1599.0 | 1629.0 | 0.31 | 0.18 | 0.13 |
| 1639.2 | 1669.2 | 10.33 | 10.16 | 10.02 | 1639.2 | 1669.2 | 18.82 | 24.92 | 19.46 | 1639.2 | 1669.2 | 0.27 | 0.14 | 0.10 |
| 1699.5 | 1729.5 | 10.56 | 10.38 | 10.26 | 1699.5 | 1729.5 | 19.10 | 20.91 | 24.87 | 1699.5 | 1729.5 | 0.19 | 0.11 | 0.07 |
| 1739.8 | 1769.8 | 10.96 | 10.75 | 10.65 | 1739.8 | 1769.8 | 19.13 | 18.73 | 21.52 | 1739.8 | 1769.8 | 0.13 | 0.07 | 0.05 |
| 1800.1 | 1830.1 | 11.23 | 10.94 | 10.87 | 1800.1 | 1830.1 | 21.25 | 19.73 | 21.33 | 1800.1 | 1830.1 | 0.17 | 0.07 | 0.03 |



Frequency Mixer

TFM-2LH

Typical Performance Data

| IF (OUT) (MHz) | LO (MHz) | CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=510.1MHz (dB) | IF (OUT) (MHz) | LO (MHz) | CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=10.1MHz (dB) | IF (OUT) (MHz) | LO (MHz) | CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1010.1MHz (dB) |
|----------------|----------|--|----------------|----------|---|----------------|----------|---|
| | | @LO (dBm) | | | @LO (dBm) | | | @LO (dBm) |
| | | +10 | | | +10 | | | +10 |
| 500.0 | 10.1 | 6.30 | 10.0 | 20.1 | 5.97 | 1000.0 | 10.1 | 7.27 |
| 487.4 | 22.7 | 6.23 | 70.6 | 80.7 | 5.87 | 979.8 | 30.3 | 7.24 |
| 474.9 | 35.2 | 6.12 | 131.2 | 141.3 | 5.92 | 959.6 | 50.5 | 7.21 |
| 462.3 | 47.8 | 6.13 | 191.7 | 201.8 | 5.91 | 939.4 | 70.7 | 7.21 |
| 449.7 | 60.4 | 6.23 | 252.3 | 262.4 | 5.91 | 919.2 | 90.9 | 7.14 |
| 437.2 | 72.9 | 6.13 | 312.9 | 323.0 | 6.05 | 899.0 | 111.1 | 7.04 |
| 424.6 | 85.5 | 6.08 | 373.5 | 383.6 | 6.05 | 878.8 | 131.3 | 7.04 |
| 412.1 | 98.0 | 6.08 | 434.1 | 444.2 | 6.16 | 858.6 | 151.5 | 7.03 |
| 399.5 | 110.6 | 6.00 | 494.7 | 504.8 | 6.21 | 838.4 | 171.7 | 7.06 |
| 386.9 | 123.2 | 5.97 | 555.2 | 565.3 | 6.19 | 818.2 | 191.9 | 7.03 |
| 374.4 | 135.7 | 5.98 | 615.8 | 625.9 | 6.26 | 798.0 | 212.1 | 7.06 |
| 361.8 | 148.3 | 5.98 | 676.4 | 686.5 | 6.38 | 777.8 | 232.3 | 7.08 |
| 349.2 | 160.9 | 5.95 | 716.8 | 726.9 | 6.39 | 757.6 | 252.5 | 7.00 |
| 336.7 | 173.4 | 5.99 | 777.4 | 787.5 | 6.01 | 737.3 | 272.8 | 7.15 |
| 324.1 | 186.0 | 5.99 | 817.8 | 827.9 | 6.23 | 717.1 | 293.0 | 7.12 |
| 311.5 | 198.6 | 5.99 | 878.3 | 888.4 | 5.96 | 696.9 | 313.2 | 7.15 |
| 299.0 | 211.1 | 6.02 | 918.7 | 928.8 | 5.86 | 676.7 | 333.4 | 7.11 |
| 286.4 | 223.7 | 6.02 | 979.3 | 989.4 | 6.19 | 656.5 | 353.6 | 7.12 |
| 273.8 | 236.3 | 5.99 | 1019.7 | 1029.8 | 6.23 | 636.3 | 373.8 | 7.12 |
| 261.3 | 248.8 | 6.06 | 1080.3 | 1090.4 | 6.30 | 616.1 | 394.0 | 7.11 |
| 248.7 | 261.4 | 6.09 | 1120.7 | 1130.8 | 6.31 | 575.7 | 434.4 | 7.13 |
| 236.2 | 273.9 | 6.05 | 1181.3 | 1191.4 | 6.14 | 555.5 | 454.6 | 7.18 |
| 223.6 | 286.5 | 6.10 | 1221.7 | 1231.8 | 6.11 | 515.1 | 495.0 | 7.23 |
| 211.0 | 299.1 | 6.15 | 1282.2 | 1292.3 | 6.07 | 494.9 | 515.2 | 7.18 |
| 198.5 | 311.6 | 6.08 | 1322.6 | 1332.7 | 6.06 | 454.5 | 555.6 | 7.07 |
| 185.9 | 324.2 | 6.08 | 1383.2 | 1393.3 | 6.39 | 434.3 | 575.8 | 7.06 |
| 173.3 | 336.8 | 6.12 | 1423.6 | 1433.7 | 6.37 | 393.9 | 616.2 | 7.14 |
| 160.8 | 349.3 | 6.11 | 1484.2 | 1494.3 | 6.84 | 373.7 | 636.4 | 7.18 |
| 148.2 | 361.9 | 6.16 | 1524.6 | 1534.7 | 7.01 | 333.3 | 676.8 | 7.26 |
| 135.6 | 374.5 | 6.21 | 1585.1 | 1595.2 | 7.35 | 313.1 | 697.0 | 7.29 |
| 123.1 | 387.0 | 6.18 | 1625.5 | 1635.6 | 7.46 | 272.7 | 737.4 | 7.08 |
| 110.5 | 399.6 | 6.21 | 1686.1 | 1696.2 | 8.17 | 252.4 | 757.7 | 6.95 |
| 97.9 | 412.2 | 6.24 | 1726.5 | 1736.6 | 8.27 | 212.0 | 798.1 | 6.75 |
| 85.4 | 424.7 | 6.18 | 1787.1 | 1797.2 | 8.90 | 191.8 | 818.3 | 6.69 |
| 72.8 | 437.3 | 6.20 | 1827.5 | 1837.6 | 9.20 | 151.4 | 858.7 | 6.74 |
| 60.3 | 449.8 | 6.29 | 1888.1 | 1898.2 | 9.69 | 131.2 | 878.9 | 6.79 |
| 47.7 | 462.4 | 6.26 | 1928.4 | 1938.5 | 10.09 | 90.8 | 919.3 | 6.92 |
| 35.1 | 475.0 | 6.28 | 1989.0 | 1999.1 | 10.63 | 70.6 | 939.5 | 7.10 |
| 22.6 | 487.5 | 6.35 | 2029.4 | 2039.5 | 10.96 | 30.2 | 979.9 | 7.48 |
| 10.0 | 500.1 | 6.40 | 2090.0 | 2100.1 | 11.29 | 10.0 | 1000.1 | 7.76 |

Frequency Mixer

TFM-2LH

Typical Performance Data

| LO (MHz) | LO-RF ISOLATION (dB) | | | LO-IF ISOLATION (dB) | | |
|-------------|-------------------------|-------|-------|-------------------------|-------|-------|
| | @LO (dBm) | | | @LO (dBm) | | |
| | +7 | +10 | +13 | +7 | +10 | +13 |
| 40.1 | 60.60 | 61.06 | 60.98 | 59.84 | 57.94 | 56.71 |
| 80.3 | 56.14 | 56.61 | 57.01 | 55.21 | 53.47 | 51.87 |
| 120.5 | 53.21 | 53.77 | 54.33 | 51.99 | 50.02 | 49.12 |
| 160.8 | 50.77 | 51.68 | 52.20 | 49.67 | 48.32 | 47.17 |
| 201.0 | 49.08 | 49.91 | 50.54 | 48.11 | 46.80 | 45.59 |
| 241.2 | 47.76 | 48.66 | 49.16 | 46.77 | 45.62 | 44.28 |
| 281.4 | 46.38 | 47.36 | 48.01 | 44.86 | 44.02 | 42.96 |
| 321.7 | 45.42 | 46.26 | 46.81 | 42.76 | 42.36 | 41.69 |
| 361.9 | 44.72 | 45.63 | 46.40 | 41.04 | 40.94 | 40.65 |
| 402.1 | 44.17 | 45.23 | 45.86 | 39.09 | 39.54 | 39.47 |
| 442.3 | 42.89 | 43.88 | 44.72 | 37.18 | 37.60 | 37.88 |
| 482.6 | 41.94 | 42.82 | 43.57 | 35.81 | 36.38 | 36.71 |
| 522.8 | 41.27 | 42.11 | 42.93 | 34.62 | 35.52 | 36.06 |
| 563.0 | 41.43 | 42.37 | 43.13 | 33.69 | 34.49 | 35.18 |
| 603.2 | 41.76 | 42.82 | 43.47 | 33.08 | 33.84 | 34.49 |
| 643.5 | 42.18 | 43.10 | 43.68 | 32.50 | 33.25 | 33.69 |
| 683.7 | 42.13 | 42.85 | 43.24 | 31.68 | 32.55 | 33.00 |
| 723.9 | 42.17 | 42.68 | 42.89 | 30.83 | 31.97 | 32.58 |
| 764.1 | 41.72 | 42.15 | 42.34 | 29.75 | 31.06 | 31.75 |
| 824.5 | 40.55 | 40.99 | 41.14 | 28.32 | 29.62 | 30.57 |
| 864.7 | 39.50 | 40.32 | 40.65 | 26.96 | 28.35 | 29.46 |
| 925.0 | 38.43 | 39.50 | 40.18 | 25.71 | 26.84 | 28.14 |
| 965.3 | 37.54 | 38.70 | 39.41 | 24.95 | 25.87 | 27.09 |
| 1025.6 | 36.73 | 38.08 | 39.19 | 24.77 | 25.56 | 26.44 |
| 1065.8 | 36.41 | 37.74 | 38.94 | 24.24 | 25.15 | 25.97 |
| 1126.2 | 35.71 | 37.11 | 38.15 | 23.91 | 25.05 | 26.00 |
| 1166.4 | 35.39 | 36.65 | 37.72 | 23.41 | 24.51 | 25.49 |
| 1226.7 | 33.04 | 34.46 | 35.55 | 23.46 | 24.55 | 25.47 |
| 1267.0 | 33.58 | 35.03 | 36.08 | 22.75 | 23.56 | 24.57 |
| 1327.3 | 33.87 | 35.31 | 36.38 | 21.96 | 22.91 | 24.00 |
| 1367.5 | 33.99 | 35.31 | 36.20 | 21.60 | 22.57 | 23.54 |
| 1427.9 | 34.00 | 35.20 | 36.03 | 21.81 | 22.69 | 23.57 |
| 1468.1 | 34.14 | 35.21 | 35.70 | 21.92 | 22.70 | 23.23 |
| 1528.4 | 34.04 | 34.86 | 35.38 | 22.51 | 22.99 | 23.47 |
| 1568.6 | 33.94 | 34.58 | 34.72 | 22.72 | 23.04 | 23.06 |
| 1629.0 | 33.78 | 34.04 | 33.80 | 23.67 | 23.52 | 23.21 |
| 1669.2 | 33.65 | 33.66 | 33.27 | 24.02 | 23.52 | 22.88 |
| 1729.5 | 33.58 | 33.36 | 32.96 | 24.81 | 23.79 | 22.89 |
| 1769.8 | 33.20 | 32.85 | 32.18 | 25.24 | 23.87 | 22.63 |
| 1830.1 | 32.74 | 32.18 | 31.56 | 26.22 | 24.28 | 22.82 |

| RF (IN) (MHz) | LO (MHz) | RF-IF ISOLATION (dB) | | |
|---------------------|-------------|-------------------------|-------|-------|
| | | @LO (dBm) | | |
| | | +7 | +10 | +13 |
| 10.1 | 40.1 | 52.97 | 53.01 | 51.67 |
| 50.3 | 80.3 | 39.12 | 39.18 | 39.05 |
| 90.5 | 120.5 | 34.48 | 34.05 | 34.62 |
| 130.8 | 160.8 | 31.80 | 31.81 | 32.20 |
| 171.0 | 201.0 | 30.54 | 30.40 | 30.82 |
| 211.2 | 241.2 | 29.32 | 29.55 | 29.60 |
| 251.4 | 281.4 | 28.58 | 28.82 | 28.97 |
| 291.7 | 321.7 | 28.22 | 28.32 | 28.63 |
| 331.9 | 361.9 | 28.11 | 28.51 | 28.83 |
| 372.1 | 402.1 | 28.13 | 28.47 | 28.71 |
| 412.3 | 442.3 | 28.19 | 28.69 | 28.98 |
| 452.6 | 482.6 | 28.03 | 28.49 | 28.58 |
| 492.8 | 522.8 | 27.54 | 28.04 | 28.43 |
| 533.0 | 563.0 | 27.10 | 27.74 | 28.34 |
| 573.2 | 603.2 | 26.08 | 26.47 | 27.20 |
| 613.5 | 643.5 | 24.53 | 24.78 | 25.10 |
| 653.7 | 683.7 | 23.33 | 23.25 | 23.29 |
| 693.9 | 723.9 | 21.87 | 21.86 | 21.68 |
| 734.1 | 764.1 | 20.52 | 20.27 | 20.03 |
| 794.5 | 824.5 | 19.21 | 18.95 | 18.73 |
| 834.7 | 864.7 | 18.75 | 18.44 | 18.31 |
| 895.0 | 925.0 | 18.37 | 18.06 | 17.95 |
| 935.3 | 965.3 | 18.21 | 17.87 | 17.65 |
| 995.6 | 1025.6 | 18.23 | 17.91 | 17.59 |
| 1035.8 | 1065.8 | 18.16 | 18.00 | 17.65 |
| 1096.2 | 1126.2 | 18.18 | 18.02 | 17.83 |
| 1136.4 | 1166.4 | 17.88 | 17.72 | 17.43 |
| 1196.7 | 1226.7 | 17.22 | 17.03 | 16.74 |
| 1237.0 | 1267.0 | 17.24 | 16.83 | 16.61 |
| 1297.3 | 1327.3 | 15.73 | 15.43 | 15.25 |
| 1337.5 | 1367.5 | 14.85 | 14.48 | 14.26 |
| 1397.9 | 1427.9 | 13.45 | 13.15 | 12.97 |
| 1438.1 | 1468.1 | 12.70 | 12.43 | 12.24 |
| 1498.4 | 1528.4 | 11.60 | 11.28 | 11.04 |
| 1538.6 | 1568.6 | 11.04 | 10.64 | 10.45 |
| 1599.0 | 1629.0 | 10.34 | 9.96 | 9.71 |
| 1639.2 | 1669.2 | 9.98 | 9.59 | 9.35 |
| 1699.5 | 1729.5 | 9.47 | 9.09 | 8.80 |
| 1739.8 | 1769.8 | 9.13 | 8.78 | 8.55 |
| 1800.1 | 1830.1 | 8.81 | 8.50 | 8.31 |



Frequency Mixer

TFM-2LH

Typical Performance Data

| RF (IN) (MHz) | LO (MHz) | RF VSWR (:1) | | | LO (MHz) | LO VSWR (:1) | | | IF (OUT) (MHz) | IF VSWR @LO=1000MHz (:1) | | |
|------------------|-------------|-----------------|------|------|-------------|-----------------|------|------|----------------------|--------------------------------|------|------|
| | | @LO (dBm) | | | | @LO (dBm) | | | | @LO (dBm) | | |
| | | +7 | +10 | +13 | | +7 | +10 | +13 | | +7 | +10 | +13 |
| 10.1 | 40.1 | 1.06 | 1.10 | 1.17 | 40.1 | 1.67 | 2.49 | 3.50 | 10.0 | 2.48 | 2.01 | 1.68 |
| 50.3 | 80.3 | 1.04 | 1.03 | 1.08 | 80.3 | 1.56 | 2.24 | 3.08 | 30.0 | 2.51 | 2.03 | 1.69 |
| 90.5 | 120.5 | 1.03 | 1.05 | 1.11 | 120.5 | 1.62 | 2.35 | 3.26 | 50.0 | 2.55 | 2.06 | 1.73 |
| 130.8 | 160.8 | 1.04 | 1.06 | 1.12 | 160.8 | 1.59 | 2.30 | 3.17 | 70.0 | 2.47 | 2.00 | 1.67 |
| 171.0 | 201.0 | 1.02 | 1.09 | 1.15 | 201.0 | 1.55 | 2.24 | 3.09 | 90.0 | 2.52 | 2.04 | 1.70 |
| 211.2 | 241.2 | 1.03 | 1.09 | 1.15 | 241.2 | 1.60 | 2.33 | 3.21 | 110.0 | 2.43 | 1.97 | 1.64 |
| 251.4 | 281.4 | 1.02 | 1.09 | 1.15 | 281.4 | 1.57 | 2.24 | 3.07 | 130.0 | 2.57 | 2.08 | 1.75 |
| 291.7 | 321.7 | 1.05 | 1.12 | 1.17 | 321.7 | 1.60 | 2.32 | 3.18 | 150.0 | 2.49 | 2.02 | 1.70 |
| 331.9 | 361.9 | 1.04 | 1.11 | 1.15 | 361.9 | 1.59 | 2.27 | 3.10 | 170.0 | 2.54 | 2.06 | 1.73 |
| 372.1 | 402.1 | 1.06 | 1.13 | 1.19 | 402.1 | 1.61 | 2.29 | 3.12 | 190.0 | 2.45 | 1.99 | 1.67 |
| 412.3 | 442.3 | 1.04 | 1.11 | 1.16 | 442.3 | 1.64 | 2.33 | 3.16 | 210.0 | 2.50 | 2.04 | 1.71 |
| 452.6 | 482.6 | 1.06 | 1.12 | 1.17 | 482.6 | 1.62 | 2.28 | 3.09 | 230.0 | 2.51 | 2.04 | 1.72 |
| 492.8 | 522.8 | 1.06 | 1.12 | 1.18 | 522.8 | 1.67 | 2.35 | 3.16 | 250.0 | 2.54 | 2.07 | 1.75 |
| 533.0 | 563.0 | 1.06 | 1.14 | 1.20 | 563.0 | 1.68 | 2.33 | 3.12 | 270.0 | 2.48 | 2.03 | 1.71 |
| 573.2 | 603.2 | 1.09 | 1.16 | 1.22 | 603.2 | 1.71 | 2.38 | 3.18 | 290.0 | 2.49 | 2.04 | 1.72 |
| 613.5 | 643.5 | 1.07 | 1.13 | 1.18 | 643.5 | 1.73 | 2.39 | 3.17 | 310.0 | 2.52 | 2.06 | 1.74 |
| 653.7 | 683.7 | 1.09 | 1.15 | 1.20 | 683.7 | 1.73 | 2.37 | 3.15 | 330.0 | 2.50 | 2.05 | 1.74 |
| 693.9 | 723.9 | 1.05 | 1.11 | 1.15 | 723.9 | 1.75 | 2.38 | 3.15 | 350.0 | 2.56 | 2.10 | 1.78 |
| 734.1 | 764.1 | 1.08 | 1.14 | 1.17 | 764.1 | 1.76 | 2.36 | 3.12 | 370.0 | 2.45 | 2.00 | 1.70 |
| 794.5 | 824.5 | 1.02 | 1.04 | 1.08 | 824.5 | 1.85 | 2.45 | 3.19 | 390.0 | 2.54 | 2.08 | 1.77 |
| 834.7 | 864.7 | 1.03 | 1.06 | 1.10 | 864.7 | 1.90 | 2.48 | 3.20 | 430.0 | 2.54 | 2.09 | 1.78 |
| 895.0 | 925.0 | 1.18 | 1.12 | 1.12 | 925.0 | 1.98 | 2.58 | 3.28 | 450.0 | 2.45 | 2.02 | 1.72 |
| 935.3 | 965.3 | 1.23 | 1.19 | 1.19 | 965.3 | 1.99 | 2.60 | 3.30 | 490.0 | 2.42 | 1.99 | 1.70 |
| 995.6 | 1025.6 | 1.40 | 1.33 | 1.29 | 1025.6 | 2.01 | 2.63 | 3.34 | 510.0 | 2.47 | 2.04 | 1.74 |
| 1035.8 | 1065.8 | 1.50 | 1.45 | 1.42 | 1065.8 | 2.01 | 2.62 | 3.33 | 550.0 | 2.43 | 2.01 | 1.72 |
| 1096.2 | 1126.2 | 1.62 | 1.56 | 1.52 | 1126.2 | 2.00 | 2.59 | 3.28 | 570.0 | 2.40 | 1.97 | 1.69 |
| 1136.4 | 1166.4 | 1.81 | 1.76 | 1.72 | 1166.4 | 2.00 | 2.57 | 3.25 | 610.0 | 2.45 | 2.02 | 1.72 |
| 1196.7 | 1226.7 | 1.86 | 1.80 | 1.75 | 1226.7 | 1.96 | 2.51 | 3.20 | 630.0 | 2.34 | 1.93 | 1.66 |
| 1237.0 | 1267.0 | 2.09 | 2.03 | 1.99 | 1267.0 | 1.95 | 2.52 | 3.22 | 670.0 | 2.27 | 1.88 | 1.61 |
| 1297.3 | 1327.3 | 2.10 | 2.07 | 2.03 | 1327.3 | 1.96 | 2.54 | 3.25 | 690.0 | 2.36 | 1.94 | 1.66 |
| 1337.5 | 1367.5 | 2.45 | 2.42 | 2.38 | 1367.5 | 2.01 | 2.60 | 3.31 | 730.0 | 2.31 | 1.91 | 1.64 |
| 1397.9 | 1427.9 | 2.41 | 2.40 | 2.39 | 1427.9 | 2.12 | 2.67 | 3.36 | 750.0 | 2.22 | 1.82 | 1.56 |
| 1438.1 | 1468.1 | 2.67 | 2.66 | 2.64 | 1468.1 | 2.23 | 2.77 | 3.42 | 790.0 | 2.20 | 1.81 | 1.54 |
| 1498.4 | 1528.4 | 2.63 | 2.63 | 2.62 | 1528.4 | 2.41 | 2.88 | 3.51 | 810.0 | 2.18 | 1.81 | 1.55 |
| 1538.6 | 1568.6 | 2.82 | 2.83 | 2.82 | 1568.6 | 2.57 | 3.00 | 3.60 | 850.0 | 2.10 | 1.74 | 1.49 |
| 1599.0 | 1629.0 | 2.81 | 2.82 | 2.83 | 1629.0 | 2.78 | 3.17 | 3.75 | 870.0 | 2.13 | 1.76 | 1.49 |
| 1639.2 | 1669.2 | 2.87 | 2.87 | 2.87 | 1669.2 | 2.98 | 3.31 | 3.85 | 910.0 | 2.11 | 1.76 | 1.49 |
| 1699.5 | 1729.5 | 3.03 | 3.04 | 3.04 | 1729.5 | 3.25 | 3.48 | 3.99 | 930.0 | 2.00 | 1.66 | 1.41 |
| 1739.8 | 1769.8 | 3.04 | 3.03 | 3.02 | 1769.8 | 3.49 | 3.64 | 4.09 | 970.0 | 1.94 | 1.62 | 1.37 |
| 1800.1 | 1830.1 | 3.26 | 3.24 | 3.24 | 1830.1 | 3.84 | 3.85 | 4.23 | 990.0 | 2.01 | 1.69 | 1.44 |

Harmonics Tables

RF HARMONICS ORDER

| | (-dBm) | (dBc) | | | | | | | | | | |
|----|--------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0 | - | - | 9 | 24 | 12 | 29 | 15 | 33 | 17 | 49 | 32 | 47 |
| 1 | - | 22 | +0 | 34 | 11 | 40 | 22 | 40 | 44 | 35 | 36 | 43 |
| 2 | 84 | 66 | 48 | 63 | 49 | 66 | 49 | 63 | 55 | 70 | 53 | 64 |
| 3 | >90 | 67 | 65 | 69 | 62 | 70 | 59 | 69 | 68 | >74 | 68 | >74 |
| 4 | >90 | >74 | >74 | >74 | >74 | >74 | >74 | >74 | >74 | >74 | >74 | >74 |
| 5 | >90 | >74 | >74 | >74 | >74 | >74 | >74 | >74 | >74 | >74 | >74 | >74 |
| 6 | >90 | >74 | >74 | >74 | >74 | >74 | >74 | >74 | >74 | >74 | >74 | >74 |
| 7 | >90 | >74 | >74 | >74 | >74 | >74 | >74 | >74 | >74 | >74 | >74 | >74 |
| 8 | >90 | >74 | >74 | >74 | >74 | >74 | >74 | >74 | >74 | >74 | >74 | >74 |
| 9 | >90 | >74 | >74 | >74 | >74 | >74 | >74 | >74 | >74 | >74 | >74 | >74 |
| 10 | >90 | >74 | >74 | >74 | >74 | >74 | >74 | >74 | >74 | >74 | >74 | >74 |
| | RF CAL | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

LO HARMONICS ORDER

Test conditions: RF IN: 500 MHz; -10.00 dBm.
 LO IN: 530 MHz; +10.00 dBm
 IF OUT: 30 MHz; -16.36 dBm

RF HARMONICS ORDER

| | (-dBm) | (dBc) | | | | | | | | | | |
|----|--------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0 | - | - | 19 | 34 | 23 | 42 | 26 | 44 | 31 | 57 | 51 | 64 |
| 1 | - | 23 | +0 | 31 | 12 | 40 | 23 | 44 | 42 | 41 | 46 | 51 |
| 2 | 65 | 67 | 41 | 60 | 41 | 61 | 43 | 53 | 48 | 57 | 44 | 71 |
| 3 | >90 | 51 | 42 | 54 | 51 | 61 | 41 | 78 | 52 | 56 | 56 | 49 |
| 4 | >90 | 73 | 63 | 68 | 58 | 66 | 59 | 70 | 55 | 71 | 67 | 70 |
| 5 | >90 | 66 | 67 | 64 | 52 | 64 | 51 | 61 | 50 | 59 | 58 | 72 |
| 6 | >90 | >84 | >84 | >84 | 71 | >84 | 67 | 77 | 64 | 76 | 66 | 78 |
| 7 | >90 | >84 | >84 | >84 | 74 | >84 | 75 | >84 | 77 | >84 | 69 | 81 |
| 8 | >90 | >84 | >84 | >84 | >84 | >84 | 81 | >84 | 76 | >84 | 74 | >84 |
| 9 | >90 | >84 | >84 | >84 | >84 | >84 | 79 | >84 | 76 | >84 | 78 | 83 |
| 10 | >90 | >84 | >84 | >84 | >84 | >84 | >84 | >84 | >84 | >84 | >84 | >84 |
| | RF CAL | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

LO HARMONICS ORDER

Test conditions: RF IN: 500 MHz; 0.00 dBm.
 LO IN: 530 MHz; +10.00 dBm
 IF OUT: 30 MHz; -6.31 dBm

- Notes: 1. All Harmonics are in (dBc) relative to IF OUTPUT.
 2. + entry denotes harmonics are in (dBc) above IF OUTPUT.
 3. RF Cal represent the Harmonics level of the RF input signal to the mixer.