

Frequency Mixer

RMS-11X+

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=+1dBm (dB) | | |
|---------------|----------|----------------------------------------------|-------|-------|---------------|----------|-----------------|-------|-------|---------------|----------|-------------------------------|------|------|
| | | @LO (dBm) | | | | | @LO (dBm) | | | | | @LO (dBm) | | |
| | | +4 | +7 | +10 | | | +4 | +7 | +10 | | | +4 | +7 | +10 |
| 5.0 | 35.0 | 7.17 | 6.69 | 6.52 | 10.1 | 40.1 | 16.21 | 17.20 | 17.33 | 10.1 | 40.1 | 1.23 | 0.71 | 0.29 |
| 10.0 | 40.0 | 7.17 | 6.67 | 6.52 | 70.4 | 100.4 | 12.83 | 13.65 | 14.56 | 70.4 | 100.4 | 1.32 | 0.84 | 0.56 |
| 70.4 | 100.4 | 7.12 | 6.75 | 6.55 | 130.7 | 160.7 | 11.33 | 13.87 | 19.15 | 130.7 | 160.7 | 1.49 | 0.93 | 0.66 |
| 130.7 | 160.7 | 7.24 | 6.87 | 6.66 | 190.9 | 220.9 | 11.29 | 16.00 | 21.79 | 190.9 | 220.9 | 1.34 | 0.90 | 0.60 |
| 190.9 | 220.9 | 7.34 | 6.94 | 6.73 | 251.2 | 281.2 | 12.86 | 16.49 | 17.48 | 251.2 | 281.2 | 1.47 | 1.01 | 0.68 |
| 251.2 | 281.2 | 7.38 | 6.97 | 6.78 | 311.5 | 341.5 | 15.06 | 15.78 | 17.72 | 311.5 | 341.5 | 1.48 | 1.13 | 0.72 |
| 311.5 | 341.5 | 7.49 | 7.09 | 6.89 | 371.8 | 401.8 | 14.02 | 14.67 | 16.99 | 371.8 | 401.8 | 1.51 | 1.12 | 0.78 |
| 371.8 | 401.8 | 7.63 | 7.22 | 6.99 | 432.0 | 462.0 | 13.32 | 14.27 | 15.74 | 432.0 | 462.0 | 1.50 | 1.14 | 0.89 |
| 432.0 | 462.0 | 7.60 | 7.20 | 7.00 | 492.3 | 522.3 | 11.27 | 12.68 | 15.31 | 492.3 | 522.3 | 1.69 | 1.25 | 0.99 |
| 492.3 | 522.3 | 7.74 | 7.32 | 7.08 | 552.6 | 582.6 | 9.59 | 11.84 | 13.90 | 552.6 | 582.6 | 1.57 | 1.19 | 0.88 |
| 552.6 | 582.6 | 7.82 | 7.35 | 7.11 | 612.9 | 642.9 | 9.11 | 10.92 | 12.97 | 612.9 | 642.9 | 1.38 | 1.11 | 0.93 |
| 612.9 | 642.9 | 7.83 | 7.40 | 7.15 | 673.1 | 703.1 | 8.43 | 9.73 | 12.06 | 673.1 | 703.1 | 1.56 | 1.36 | 1.04 |
| 673.1 | 703.1 | 7.86 | 7.47 | 7.26 | 733.4 | 763.4 | 8.29 | 10.49 | 12.20 | 733.4 | 763.4 | 1.58 | 1.25 | 0.95 |
| 733.4 | 763.4 | 7.87 | 7.45 | 7.26 | 793.7 | 823.7 | 8.27 | 11.06 | 13.31 | 793.7 | 823.7 | 1.41 | 1.13 | 0.95 |
| 793.7 | 823.7 | 7.85 | 7.46 | 7.25 | 854.0 | 884.0 | 8.20 | 10.21 | 13.22 | 854.0 | 884.0 | 1.36 | 1.11 | 0.91 |
| 854.0 | 884.0 | 7.95 | 7.56 | 7.33 | 914.2 | 944.2 | 8.66 | 10.32 | 12.74 | 914.2 | 944.2 | 1.37 | 1.08 | 0.93 |
| 914.2 | 944.2 | 8.03 | 7.57 | 7.36 | 974.5 | 1004.5 | 9.45 | 10.80 | 13.14 | 974.5 | 1004.5 | 1.35 | 1.06 | 0.89 |
| 974.5 | 1004.5 | 8.09 | 7.63 | 7.42 | 1034.8 | 1064.8 | 9.69 | 11.75 | 13.52 | 1034.8 | 1064.8 | 1.10 | 0.87 | 0.66 |
| 1034.8 | 1064.8 | 8.19 | 7.69 | 7.45 | 1095.1 | 1125.1 | 10.03 | 11.76 | 14.98 | 1095.1 | 1125.1 | 1.03 | 0.83 | 0.63 |
| 1095.1 | 1125.1 | 8.32 | 7.85 | 7.54 | 1155.3 | 1185.3 | 9.35 | 12.29 | 14.01 | 1155.3 | 1185.3 | 1.03 | 0.67 | 0.61 |
| 1155.3 | 1185.3 | 8.41 | 7.98 | 7.68 | 1215.6 | 1245.6 | 10.31 | 12.43 | 13.88 | 1215.6 | 1245.6 | 0.93 | 0.60 | 0.54 |
| 1215.6 | 1245.6 | 8.46 | 8.02 | 7.79 | 1275.9 | 1305.9 | 9.96 | 11.33 | 12.28 | 1275.9 | 1305.9 | 0.85 | 0.60 | 0.42 |
| 1275.9 | 1305.9 | 8.54 | 8.08 | 7.86 | 1336.2 | 1366.2 | 10.01 | 10.95 | 11.64 | 1336.2 | 1366.2 | 1.12 | 0.71 | 0.59 |
| 1336.2 | 1366.2 | 8.56 | 8.15 | 7.93 | 1396.4 | 1426.4 | 9.97 | 11.16 | 12.11 | 1396.4 | 1426.4 | 1.01 | 0.52 | 0.37 |
| 1396.4 | 1426.4 | 8.55 | 8.15 | 7.95 | 1436.6 | 1466.6 | 10.32 | 11.64 | 12.54 | 1436.6 | 1466.6 | 1.02 | 0.51 | 0.39 |
| 1436.6 | 1466.6 | 8.57 | 8.21 | 8.00 | 1496.9 | 1526.9 | 10.66 | 12.84 | 12.02 | 1496.9 | 1526.9 | 1.13 | 0.56 | 0.41 |
| 1496.9 | 1526.9 | 8.61 | 8.24 | 8.08 | 1537.1 | 1567.1 | 11.32 | 14.08 | 14.73 | 1537.1 | 1567.1 | 1.03 | 0.54 | 0.20 |
| 1537.1 | 1567.1 | 8.58 | 8.25 | 8.09 | 1597.3 | 1627.3 | 10.42 | 13.25 | 15.31 | 1597.3 | 1627.3 | 0.99 | 0.47 | 0.25 |
| 1597.3 | 1627.3 | 8.75 | 8.33 | 8.17 | 1637.5 | 1667.5 | 10.78 | 13.55 | 16.23 | 1637.5 | 1667.5 | 0.99 | 0.47 | 0.35 |
| 1637.5 | 1667.5 | 8.72 | 8.39 | 8.25 | 1697.8 | 1727.8 | 10.25 | 13.34 | 15.88 | 1697.8 | 1727.8 | 1.12 | 0.43 | 0.30 |
| 1697.8 | 1727.8 | 8.90 | 8.53 | 8.38 | 1738.0 | 1768.0 | 10.49 | 14.18 | 15.19 | 1738.0 | 1768.0 | 0.95 | 0.42 | 0.17 |
| 1738.0 | 1768.0 | 9.18 | 8.76 | 8.64 | 1798.3 | 1828.3 | 10.17 | 14.07 | 15.77 | 1798.3 | 1828.3 | 1.04 | 0.44 | 0.08 |
| 1798.3 | 1828.3 | 9.35 | 8.94 | 8.76 | 1838.4 | 1868.4 | 10.19 | 13.74 | 15.36 | 1838.4 | 1868.4 | 1.07 | 0.48 | 0.32 |
| 1838.4 | 1868.4 | 9.57 | 9.10 | 9.00 | 1898.7 | 1928.7 | 10.18 | 13.74 | 16.03 | 1898.7 | 1928.7 | 0.88 | 0.30 | 0.23 |
| 1898.7 | 1928.7 | 9.72 | 9.23 | 9.08 | 1938.9 | 1968.9 | 10.43 | 15.45 | 17.51 | 1938.9 | 1968.9 | 0.94 | 0.36 | 0.13 |
| 1938.9 | 1968.9 | 9.96 | 9.44 | 9.32 | 1999.2 | 2029.2 | 12.30 | 17.28 | 19.59 | 1999.2 | 2029.2 | 0.84 | 0.40 | 0.13 |
| 1999.2 | 2029.2 | 10.16 | 9.64 | 9.48 | 2039.4 | 2069.4 | 12.53 | 16.08 | 19.63 | 2039.4 | 2069.4 | 0.89 | 0.43 | 0.09 |
| 2039.4 | 2069.4 | 10.50 | 9.87 | 9.73 | 2099.6 | 2129.6 | 13.57 | 16.81 | 18.92 | 2099.6 | 2129.6 | 0.90 | 0.48 | 0.16 |
| 2099.6 | 2129.6 | 10.80 | 10.16 | 9.95 | 2139.8 | 2169.8 | 13.13 | 15.88 | 17.38 | 2139.8 | 2169.8 | 0.84 | 0.51 | 0.20 |
| 2139.8 | 2169.8 | 11.11 | 10.37 | 10.15 | 2200.1 | 2230.1 | 12.26 | 15.93 | 19.34 | 2200.1 | 2230.1 | 0.92 | 0.48 | 0.29 |

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Frequency Mixer

RMS-11X+

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) |
| | | +7 | | | +7 | | | +7 |
| 500.0 | 10.1 | 7.19 | 10.0 | 20.1 | 6.56 | 1000.0 | 10.1 | 7.90 |
| 487.4 | 22.7 | 7.24 | 30.0 | 40.1 | 6.51 | 979.8 | 30.3 | 7.86 |
| 474.9 | 35.2 | 7.25 | 50.0 | 60.1 | 6.48 | 959.6 | 50.5 | 7.94 |
| 462.3 | 47.8 | 7.25 | 70.0 | 80.1 | 6.55 | 939.4 | 70.7 | 7.90 |
| 449.7 | 60.4 | 7.28 | 90.0 | 100.1 | 6.51 | 919.2 | 90.9 | 7.86 |
| 437.2 | 72.9 | 7.34 | 110.0 | 120.1 | 6.53 | 899.0 | 111.1 | 7.87 |
| 424.6 | 85.5 | 7.36 | 130.0 | 140.1 | 6.52 | 878.8 | 131.3 | 7.84 |
| 412.1 | 98.0 | 7.38 | 150.0 | 160.1 | 6.53 | 858.6 | 151.5 | 7.78 |
| 399.5 | 110.6 | 7.38 | 170.0 | 180.1 | 6.57 | 838.4 | 171.7 | 7.75 |
| 386.9 | 123.2 | 7.37 | 190.0 | 200.1 | 6.57 | 818.2 | 191.9 | 7.72 |
| 374.4 | 135.7 | 7.35 | 210.0 | 220.1 | 6.57 | 798.0 | 212.1 | 7.72 |
| 361.8 | 148.3 | 7.38 | 230.0 | 240.1 | 6.52 | 777.8 | 232.3 | 7.67 |
| 349.2 | 160.9 | 7.40 | 250.0 | 260.1 | 6.54 | 757.6 | 252.5 | 7.64 |
| 336.7 | 173.4 | 7.40 | 270.0 | 280.1 | 6.52 | 737.3 | 272.8 | 7.59 |
| 324.1 | 186.0 | 7.39 | 290.0 | 300.1 | 6.58 | 717.1 | 293.0 | 7.64 |
| 311.5 | 198.6 | 7.40 | 310.0 | 320.1 | 6.50 | 696.9 | 313.2 | 7.62 |
| 299.0 | 211.1 | 7.40 | 330.0 | 340.1 | 6.54 | 676.7 | 333.4 | 7.61 |
| 286.4 | 223.7 | 7.36 | 350.0 | 360.1 | 6.53 | 656.5 | 353.6 | 7.59 |
| 273.8 | 236.3 | 7.36 | 370.0 | 380.1 | 6.53 | 636.3 | 373.8 | 7.57 |
| 261.3 | 248.8 | 7.39 | 390.0 | 400.1 | 6.53 | 616.1 | 394.0 | 7.61 |
| 248.7 | 261.4 | 7.39 | 430.0 | 440.1 | 6.55 | 575.7 | 434.4 | 7.56 |
| 236.2 | 273.9 | 7.38 | 450.0 | 460.1 | 6.52 | 555.5 | 454.6 | 7.54 |
| 223.6 | 286.5 | 7.39 | 490.0 | 500.1 | 6.54 | 515.1 | 495.0 | 7.56 |
| 211.0 | 299.1 | 7.40 | 510.0 | 520.1 | 6.58 | 494.9 | 515.2 | 7.53 |
| 198.5 | 311.6 | 7.40 | 550.0 | 560.1 | 6.53 | 454.5 | 555.6 | 7.55 |
| 185.9 | 324.2 | 7.39 | 570.0 | 580.1 | 6.56 | 434.3 | 575.8 | 7.59 |
| 173.3 | 336.8 | 7.41 | 610.0 | 620.1 | 6.58 | 393.9 | 616.2 | 7.59 |
| 160.8 | 349.3 | 7.40 | 630.0 | 640.1 | 6.56 | 373.7 | 636.4 | 7.57 |
| 148.2 | 361.9 | 7.38 | 670.0 | 680.1 | 6.63 | 333.3 | 676.8 | 7.58 |
| 135.6 | 374.5 | 7.38 | 690.0 | 700.1 | 6.63 | 313.1 | 697.0 | 7.57 |
| 123.1 | 387.0 | 7.42 | 730.0 | 740.1 | 6.62 | 272.7 | 737.4 | 7.63 |
| 110.5 | 399.6 | 7.43 | 750.0 | 760.1 | 6.72 | 252.4 | 757.7 | 7.69 |
| 97.9 | 412.2 | 7.41 | 790.0 | 800.1 | 6.75 | 212.0 | 798.1 | 7.73 |
| 85.4 | 424.7 | 7.39 | 810.0 | 820.1 | 6.77 | 191.8 | 818.3 | 7.72 |
| 72.8 | 437.3 | 7.40 | 850.0 | 860.1 | 6.83 | 151.4 | 858.7 | 7.73 |
| 60.3 | 449.8 | 7.36 | 870.0 | 880.1 | 6.87 | 131.2 | 878.9 | 7.73 |
| 47.7 | 462.4 | 7.36 | 910.0 | 920.1 | 6.88 | 90.8 | 919.3 | 7.72 |
| 35.1 | 475.0 | 7.39 | 930.0 | 940.1 | 6.96 | 70.6 | 939.5 | 7.72 |
| 22.6 | 487.5 | 7.34 | 970.0 | 980.1 | 7.08 | 30.2 | 979.9 | 7.64 |
| 10.0 | 500.1 | 7.61 | 990.0 | 1000.1 | 7.17 | 10.0 | 1000.1 | 7.96 |



Frequency Mixer

RMS-11X+

Typical Performance Data

| LO (MHz) | LO-RF ISOLATION (dB) | | | LO-IF ISOLATION (dB) | | |
|-------------|-------------------------|-------|-------|-------------------------|-------|-------|
| | @LO (dBm) | | | @LO (dBm) | | |
| | +4 | +7 | +10 | +4 | +7 | +10 |
| 5.0 | 58.78 | 57.72 | 57.53 | 66.40 | 66.80 | 67.41 |
| 10.0 | 58.07 | 57.22 | 56.74 | 65.60 | 64.98 | 65.00 |
| 70.4 | 46.59 | 44.92 | 44.01 | 46.39 | 45.78 | 45.50 |
| 130.7 | 41.70 | 40.27 | 39.31 | 42.07 | 41.37 | 40.82 |
| 190.9 | 39.34 | 37.94 | 36.92 | 39.40 | 38.74 | 38.05 |
| 251.2 | 37.79 | 36.36 | 35.26 | 37.59 | 36.80 | 36.11 |
| 311.5 | 36.39 | 35.00 | 33.85 | 36.18 | 35.32 | 34.55 |
| 371.8 | 35.05 | 33.74 | 32.69 | 34.87 | 33.97 | 33.20 |
| 432.0 | 33.81 | 32.74 | 31.81 | 33.69 | 32.84 | 32.11 |
| 492.3 | 32.51 | 31.60 | 30.77 | 32.64 | 31.84 | 31.15 |
| 552.6 | 31.23 | 30.54 | 29.80 | 31.55 | 30.84 | 30.23 |
| 612.9 | 30.08 | 29.60 | 29.06 | 30.60 | 29.96 | 29.43 |
| 673.1 | 29.02 | 28.59 | 28.14 | 29.71 | 29.16 | 28.66 |
| 733.4 | 28.06 | 27.66 | 27.13 | 28.75 | 28.29 | 27.85 |
| 793.7 | 27.25 | 27.13 | 26.69 | 27.97 | 27.62 | 27.27 |
| 854.0 | 26.59 | 26.75 | 26.45 | 27.26 | 27.01 | 26.73 |
| 914.2 | 25.95 | 26.40 | 26.33 | 26.59 | 26.46 | 26.26 |
| 974.5 | 25.29 | 25.91 | 26.08 | 26.04 | 26.01 | 25.90 |
| 1034.8 | 24.82 | 25.52 | 25.90 | 25.46 | 25.53 | 25.48 |
| 1095.1 | 24.53 | 25.25 | 25.77 | 25.00 | 25.16 | 25.18 |
| 1155.3 | 24.42 | 25.03 | 25.53 | 24.61 | 24.88 | 24.97 |
| 1215.6 | 24.60 | 25.18 | 25.56 | 24.18 | 24.58 | 24.77 |
| 1275.9 | 24.95 | 25.75 | 26.16 | 23.81 | 24.33 | 24.60 |
| 1336.2 | 25.31 | 26.33 | 26.84 | 23.50 | 24.09 | 24.41 |
| 1396.4 | 25.58 | 26.95 | 27.67 | 23.13 | 23.80 | 24.19 |
| 1436.6 | 25.82 | 27.40 | 28.32 | 22.97 | 23.65 | 24.06 |
| 1496.9 | 25.84 | 27.78 | 29.06 | 22.66 | 23.37 | 23.81 |
| 1537.1 | 25.79 | 27.83 | 29.28 | 22.54 | 23.26 | 23.72 |
| 1597.3 | 25.70 | 27.71 | 29.20 | 22.35 | 23.12 | 23.62 |
| 1637.5 | 25.58 | 27.49 | 28.87 | 22.16 | 22.97 | 23.50 |
| 1697.8 | 25.39 | 26.96 | 28.01 | 21.99 | 22.88 | 23.50 |
| 1798.3 | 24.72 | 25.64 | 26.17 | 21.71 | 22.73 | 23.51 |
| 1838.4 | 24.33 | 25.00 | 25.34 | 21.64 | 22.72 | 23.58 |
| 1898.7 | 23.77 | 24.16 | 24.34 | 21.49 | 22.62 | 23.58 |
| 1938.9 | 23.35 | 23.55 | 23.64 | 21.53 | 22.71 | 23.73 |
| 1999.2 | 22.84 | 22.83 | 22.84 | 21.46 | 22.71 | 23.85 |
| 2039.4 | 22.45 | 22.37 | 22.36 | 21.55 | 22.86 | 24.07 |
| 2099.6 | 21.87 | 21.68 | 21.65 | 21.56 | 22.93 | 24.24 |
| 2139.8 | 21.41 | 21.20 | 21.16 | 21.63 | 23.05 | 24.42 |
| 2200.1 | 20.75 | 20.53 | 20.48 | 21.75 | 23.29 | 24.81 |

| RF (IN) (MHz) | LO (MHz) | RF-IF ISOLATION (dB) | | |
|---------------------|-------------|-------------------------|-------|-------|
| | | @LO (dBm) | | |
| | | +4 | +7 | +10 |
| 10.1 | 40.1 | 32.59 | 37.74 | 36.11 |
| 70.4 | 100.4 | 31.75 | 31.37 | 30.83 |
| 130.7 | 160.7 | 26.88 | 26.70 | 26.44 |
| 190.9 | 220.9 | 24.10 | 23.99 | 23.84 |
| 251.2 | 281.2 | 22.35 | 22.26 | 22.15 |
| 311.5 | 341.5 | 21.24 | 21.22 | 21.12 |
| 371.8 | 401.8 | 20.48 | 20.47 | 20.42 |
| 432.0 | 462.0 | 19.95 | 19.97 | 19.92 |
| 492.3 | 522.3 | 19.49 | 19.52 | 19.48 |
| 552.6 | 582.6 | 19.15 | 19.18 | 19.13 |
| 612.9 | 642.9 | 18.55 | 18.62 | 18.61 |
| 673.1 | 703.1 | 17.57 | 17.65 | 17.69 |
| 733.4 | 763.4 | 16.49 | 16.57 | 16.57 |
| 793.7 | 823.7 | 15.39 | 15.48 | 15.49 |
| 854.0 | 884.0 | 14.38 | 14.45 | 14.49 |
| 914.2 | 944.2 | 13.49 | 13.57 | 13.63 |
| 974.5 | 1004.5 | 12.71 | 12.77 | 12.86 |
| 1034.8 | 1064.8 | 12.10 | 12.16 | 12.23 |
| 1095.1 | 1125.1 | 11.64 | 11.72 | 11.80 |
| 1155.3 | 1185.3 | 11.22 | 11.33 | 11.43 |
| 1215.6 | 1245.6 | 10.98 | 11.11 | 11.22 |
| 1275.9 | 1305.9 | 10.85 | 11.02 | 11.15 |
| 1336.2 | 1366.2 | 10.79 | 11.02 | 11.20 |
| 1396.4 | 1426.4 | 10.78 | 11.04 | 11.25 |
| 1436.6 | 1466.6 | 10.79 | 11.07 | 11.30 |
| 1496.9 | 1526.9 | 10.78 | 11.10 | 11.32 |
| 1537.1 | 1567.1 | 10.81 | 11.11 | 11.32 |
| 1597.3 | 1627.3 | 10.80 | 11.11 | 11.28 |
| 1637.5 | 1667.5 | 10.83 | 11.09 | 11.24 |
| 1697.8 | 1727.8 | 10.71 | 10.92 | 11.02 |
| 1738.0 | 1768.0 | 10.62 | 10.78 | 10.84 |
| 1798.3 | 1828.3 | 10.35 | 10.40 | 10.39 |
| 1838.4 | 1868.4 | 10.13 | 10.10 | 10.05 |
| 1898.7 | 1928.7 | 9.64 | 9.51 | 9.40 |
| 1938.9 | 1968.9 | 9.32 | 9.11 | 8.97 |
| 1999.2 | 2029.2 | 8.91 | 8.59 | 8.40 |
| 2039.4 | 2069.4 | 8.70 | 8.32 | 8.10 |
| 2099.6 | 2129.6 | 8.41 | 7.94 | 7.69 |
| 2139.8 | 2169.8 | 8.21 | 7.72 | 7.45 |
| 2200.1 | 2230.1 | 7.98 | 7.42 | 7.14 |

Frequency Mixer

RMS-11X+

Typical Performance Data

| RF (IN) (MHz) | LO (MHz) | RF VSWR (:1) | | | LO (MHz) | LO VSWR (:1) | | | IF (OUT) (MHz) | IF VSWR @LO=1010.1MHz (:1) | | |
|---------------------|-------------|-----------------|------|------|-------------|-----------------|------|------|----------------------|----------------------------------|------|------|
| | | @LO (dBm) | | | | @LO (dBm) | | | | @LO (dBm) | | |
| | | +4 | +7 | +10 | | +4 | +7 | +10 | | +4 | +7 | +10 |
| 5.0 | 35.0 | 1.35 | 1.21 | 1.11 | 5.0 | 2.14 | 2.98 | 4.12 | 5.0 | 1.27 | 1.29 | 1.32 |
| 10.0 | 40.0 | 1.36 | 1.22 | 1.12 | 10.0 | 1.99 | 2.83 | 3.95 | 10.1 | 1.06 | 1.15 | 1.16 |
| 70.4 | 100.4 | 1.17 | 1.02 | 1.12 | 70.4 | 1.81 | 2.59 | 3.56 | 30.3 | 1.11 | 1.12 | 1.27 |
| 130.7 | 160.7 | 1.18 | 1.03 | 1.08 | 130.7 | 1.81 | 2.58 | 3.52 | 50.5 | 1.14 | 1.27 | 1.34 |
| 190.9 | 220.9 | 1.21 | 1.08 | 1.04 | 190.9 | 1.83 | 2.57 | 3.49 | 70.7 | 1.16 | 1.26 | 1.31 |
| 251.2 | 281.2 | 1.25 | 1.10 | 1.02 | 251.2 | 1.84 | 2.57 | 3.49 | 90.9 | 1.17 | 1.26 | 1.33 |
| 311.5 | 341.5 | 1.28 | 1.13 | 1.05 | 311.5 | 1.87 | 2.61 | 3.52 | 111.1 | 1.14 | 1.22 | 1.31 |
| 371.8 | 401.8 | 1.34 | 1.19 | 1.10 | 371.8 | 1.92 | 2.69 | 3.62 | 131.3 | 1.14 | 1.23 | 1.30 |
| 432.0 | 462.0 | 1.38 | 1.24 | 1.16 | 432.0 | 1.93 | 2.67 | 3.58 | 151.5 | 1.15 | 1.23 | 1.30 |
| 492.3 | 522.3 | 1.45 | 1.31 | 1.23 | 492.3 | 1.94 | 2.67 | 3.55 | 171.7 | 1.14 | 1.25 | 1.32 |
| 552.6 | 582.6 | 1.48 | 1.34 | 1.26 | 552.6 | 2.02 | 2.78 | 3.69 | 191.9 | 1.15 | 1.22 | 1.29 |
| 612.9 | 642.9 | 1.50 | 1.37 | 1.30 | 612.9 | 2.02 | 2.75 | 3.61 | 212.1 | 1.14 | 1.22 | 1.28 |
| 673.1 | 703.1 | 1.53 | 1.41 | 1.35 | 673.1 | 2.05 | 2.77 | 3.62 | 232.3 | 1.14 | 1.22 | 1.29 |
| 733.4 | 763.4 | 1.53 | 1.43 | 1.39 | 733.4 | 2.15 | 2.89 | 3.76 | 252.5 | 1.15 | 1.23 | 1.30 |
| 793.7 | 823.7 | 1.49 | 1.41 | 1.38 | 793.7 | 2.16 | 2.86 | 3.69 | 272.8 | 1.17 | 1.25 | 1.33 |
| 854.0 | 884.0 | 1.50 | 1.42 | 1.41 | 854.0 | 2.22 | 2.91 | 3.72 | 293.0 | 1.17 | 1.26 | 1.33 |
| 914.2 | 944.2 | 1.51 | 1.44 | 1.45 | 914.2 | 2.32 | 3.01 | 3.84 | 313.2 | 1.19 | 1.27 | 1.35 |
| 974.5 | 1004.5 | 1.48 | 1.41 | 1.44 | 974.5 | 2.37 | 3.06 | 3.85 | 333.4 | 1.19 | 1.28 | 1.36 |
| 1034.8 | 1064.8 | 1.46 | 1.38 | 1.39 | 1034.8 | 2.44 | 3.12 | 3.91 | 353.6 | 1.21 | 1.31 | 1.38 |
| 1095.1 | 1125.1 | 1.47 | 1.40 | 1.40 | 1095.1 | 2.49 | 3.16 | 3.94 | 373.8 | 1.22 | 1.32 | 1.39 |
| 1155.3 | 1185.3 | 1.43 | 1.39 | 1.40 | 1155.3 | 2.59 | 3.26 | 4.04 | 394.0 | 1.22 | 1.31 | 1.38 |
| 1215.6 | 1245.6 | 1.37 | 1.36 | 1.38 | 1215.6 | 2.60 | 3.23 | 3.97 | 434.4 | 1.23 | 1.33 | 1.40 |
| 1275.9 | 1305.9 | 1.35 | 1.34 | 1.36 | 1275.9 | 2.66 | 3.25 | 3.98 | 454.6 | 1.25 | 1.34 | 1.42 |
| 1336.2 | 1366.2 | 1.33 | 1.34 | 1.38 | 1336.2 | 2.75 | 3.34 | 4.08 | 495.0 | 1.25 | 1.34 | 1.41 |
| 1396.4 | 1426.4 | 1.31 | 1.36 | 1.43 | 1396.4 | 2.77 | 3.30 | 3.98 | 515.2 | 1.27 | 1.36 | 1.43 |
| 1436.6 | 1466.6 | 1.28 | 1.34 | 1.42 | 1436.6 | 2.83 | 3.35 | 4.04 | 555.6 | 1.30 | 1.39 | 1.47 |
| 1496.9 | 1526.9 | 1.28 | 1.38 | 1.47 | 1496.9 | 2.89 | 3.35 | 4.00 | 575.8 | 1.31 | 1.40 | 1.48 |
| 1537.1 | 1567.1 | 1.30 | 1.42 | 1.52 | 1537.1 | 2.95 | 3.40 | 4.04 | 616.2 | 1.34 | 1.42 | 1.50 |
| 1597.3 | 1627.3 | 1.29 | 1.43 | 1.55 | 1597.3 | 3.07 | 3.48 | 4.09 | 636.4 | 1.36 | 1.44 | 1.52 |
| 1637.5 | 1667.5 | 1.35 | 1.50 | 1.62 | 1637.5 | 3.18 | 3.54 | 4.13 | 676.8 | 1.38 | 1.47 | 1.54 |
| 1697.8 | 1727.8 | 1.35 | 1.52 | 1.64 | 1697.8 | 3.34 | 3.66 | 4.21 | 697.0 | 1.40 | 1.47 | 1.55 |
| 1738.0 | 1768.0 | 1.36 | 1.54 | 1.68 | 1738.0 | 3.49 | 3.76 | 4.29 | 737.4 | 1.44 | 1.52 | 1.59 |
| 1798.3 | 1828.3 | 1.28 | 1.48 | 1.62 | 1798.3 | 3.69 | 3.88 | 4.33 | 757.7 | 1.46 | 1.54 | 1.61 |
| 1838.4 | 1868.4 | 1.36 | 1.55 | 1.69 | 1838.4 | 3.89 | 4.02 | 4.45 | 798.1 | 1.49 | 1.56 | 1.62 |
| 1898.7 | 1928.7 | 1.35 | 1.55 | 1.69 | 1898.7 | 4.09 | 4.09 | 4.43 | 818.3 | 1.52 | 1.59 | 1.65 |
| 1938.9 | 1968.9 | 1.32 | 1.51 | 1.64 | 1938.9 | 4.30 | 4.26 | 4.57 | 858.7 | 1.60 | 1.67 | 1.73 |
| 1999.2 | 2029.2 | 1.36 | 1.56 | 1.70 | 1999.2 | 4.51 | 4.32 | 4.53 | 878.9 | 1.62 | 1.68 | 1.74 |
| 2039.4 | 2069.4 | 1.30 | 1.48 | 1.60 | 2039.4 | 4.70 | 4.46 | 4.66 | 919.3 | 1.68 | 1.73 | 1.78 |
| 2099.6 | 2129.6 | 1.33 | 1.51 | 1.63 | 2099.6 | 4.91 | 4.55 | 4.63 | 939.5 | 1.72 | 1.78 | 1.83 |
| 2139.8 | 2169.8 | 1.27 | 1.43 | 1.55 | 2139.8 | 5.06 | 4.67 | 4.72 | 979.9 | 1.79 | 1.84 | 1.88 |
| 2200.1 | 2230.1 | 1.27 | 1.40 | 1.51 | 2200.1 | 5.30 | 4.78 | 4.75 | 1000.1 | 1.81 | 1.85 | 1.89 |

Harmonics Tables

RF HARMONICS ORDER

| | (-dBm) | (-dBc) | | | | | | | | | | |
|----|--------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0 | - | - | +4 | 11 | 9 | 22 | 14 | 51 | 42 | 43 | 45 | 43 |
| 1 | - | 7 | +0 | 27 | 18 | 24 | 30 | 32 | 40 | 40 | 43 | 42 |
| 2 | 108 | 52 | 64 | 43 | 53 | 53 | 59 | 58 | 44 | 59 | 59 | 57 |
| 3 | 114 | 59 | 62 | 67 | 57 | 68 | 64 | 58 | 70 | 72 | 67 | 68 |
| 4 | 109 | 86 | 82 | 77 | 85 | 75 | 84 | 83 | 79 | 81 | 75 | 81 |
| 5 | 116 | 92 | 106 | 95 | 95 | 118 | 85 | 101 | 93 | 87 | 103 | 94 |
| 6 | 117 | 105 | 102 | 101 | 110 | 111 | 101 | 95 | 103 | 107 | 95 | 100 |
| 7 | 115 | 106 | 110 | 109 | 102 | 100 | 107 | 109 | 86 | 98 | 103 | 118 |
| 8 | 109 | 95 | 97 | 104 | 100 | 102 | 104 | 98 | 102 | 92 | 98 | 100 |
| 9 | 117 | 100 | 108 | 106 | 105 | 109 | 104 | 110 | 103 | 108 | 97 | 103 |
| 10 | 125 | 104 | 100 | 94 | 101 | 105 | 120 | 107 | 106 | 114 | 122 | 89 |
| | RF CAL | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

LO HARMONICS ORDER

Test conditions: RF IN: 950.1 MHz; -14.00 dBm.
 LO IN: 980.01 MHz; +7.00 dBm
 IF OUT: 29.91 MHz; -21.96 dBm

RF HARMONICS ORDER

| | (-dBm) | (-dBc) | | | | | | | | | | |
|----|--------|--------|-----|----|-----|----|----|----|----|----|----|----|
| 0 | - | - | 7 | 21 | 19 | 35 | 28 | 50 | 63 | 61 | 54 | 57 |
| 1 | - | 7 | +0 | 29 | 18 | 28 | 33 | 37 | 50 | 50 | 58 | 63 |
| 2 | 89 | 50 | 66 | 39 | 47 | 51 | 47 | 53 | 40 | 65 | 59 | 62 |
| 3 | 112 | 41 | 45 | 49 | 42 | 48 | 63 | 42 | 52 | 51 | 56 | 57 |
| 4 | 119 | 70 | 76 | 59 | 66 | 52 | 60 | 61 | 71 | 66 | 53 | 65 |
| 5 | 124 | 76 | 77 | 71 | 60 | 78 | 53 | 75 | 58 | 59 | 70 | 73 |
| 6 | 113 | 88 | 78 | 91 | 81 | 71 | 75 | 68 | 73 | 78 | 72 | 74 |
| 7 | 117 | 88 | 99 | 83 | 98 | 81 | 78 | 79 | 70 | 76 | 75 | 71 |
| 8 | 99 | 92 | 93 | 92 | 89 | 91 | 85 | 83 | 90 | 76 | 85 | 87 |
| 9 | 119 | 99 | 109 | 96 | 107 | 87 | 99 | 92 | 93 | 95 | 85 | 90 |
| 10 | 110 | 96 | 100 | 99 | 102 | 97 | 97 | 97 | 94 | 89 | 92 | 84 |
| | RF CAL | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

LO HARMONICS ORDER

Test conditions: RF IN: 950.1 MHz; -4.00 dBm.
 LO IN: 980.01 MHz; +7.00 dBm
 IF OUT: 29.91 MHz; -11.94 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.

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 100818
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