

Frequency Mixer

HJK-261H+

Typical Performance Data

| RF (IN) (MHz) | LO (MHz) | CONVERSION LOSS IF FIXED @IF(OUT)=70.1MHz (dB) | | | RF (IN) (MHz) | LO (MHz) | IP-3 INPUT (dBm) | | | RF (IN) (MHz) | LO (MHz) | COMPRESSION @RF IN=+14dBm (dB) | | |
|---------------|----------|--|------|------|---------------|----------|------------------|-------|-------|---------------|----------|--------------------------------|------|------|
| | | @LO (dBm) | | | | | @LO (dBm) | | | | | @LO (dBm) | | |
| | | +15 | +17 | +19 | | | +15 | +17 | +19 | | | +15 | +17 | +19 |
| 10.0 | 80.1 | 7.50 | 7.40 | 7.33 | 10.0 | 80.1 | 25.58 | 26.73 | 27.43 | 10.0 | 80.1 | 0.32 | 0.18 | 0.11 |
| 21.0 | 91.1 | 7.38 | 7.27 | 7.21 | 21.0 | 91.1 | 23.60 | 25.15 | 26.50 | 21.0 | 91.1 | 0.35 | 0.18 | 0.10 |
| 43.0 | 113.1 | 7.35 | 7.26 | 7.20 | 43.0 | 113.1 | 26.13 | 28.79 | 30.18 | 43.0 | 113.1 | 0.43 | 0.30 | 0.23 |
| 54.0 | 124.1 | 7.15 | 7.05 | 6.99 | 54.0 | 124.1 | 27.82 | 28.49 | 28.80 | 54.0 | 124.1 | 0.35 | 0.25 | 0.20 |
| 76.0 | 146.1 | 7.18 | 7.11 | 7.07 | 76.0 | 146.1 | 26.67 | 28.26 | 29.43 | 76.0 | 146.1 | 0.32 | 0.23 | 0.17 |
| 98.0 | 168.1 | 7.13 | 7.06 | 7.01 | 98.0 | 168.1 | 28.18 | 29.68 | 30.43 | 98.0 | 168.1 | 0.30 | 0.21 | 0.14 |
| 109.0 | 179.1 | 6.90 | 6.83 | 6.78 | 109.0 | 179.1 | 28.56 | 29.98 | 30.99 | 109.0 | 179.1 | 0.29 | 0.20 | 0.14 |
| 136.0 | 206.1 | 6.90 | 6.85 | 6.82 | 136.0 | 206.1 | 30.44 | 32.47 | 34.17 | 136.0 | 206.1 | 0.19 | 0.14 | 0.10 |
| 136.0 | 206.1 | 6.90 | 6.85 | 6.82 | 136.0 | 206.1 | 30.44 | 32.47 | 34.17 | 136.0 | 206.1 | 0.19 | 0.14 | 0.10 |
| 146.0 | 216.1 | 6.99 | 6.95 | 6.92 | 146.0 | 216.1 | 31.27 | 33.06 | 33.34 | 146.0 | 216.1 | 0.16 | 0.11 | 0.08 |
| 156.0 | 226.1 | 6.83 | 6.78 | 6.77 | 156.0 | 226.1 | 32.82 | 34.17 | 34.99 | 156.0 | 226.1 | 0.12 | 0.09 | 0.07 |
| 161.0 | 231.1 | 6.64 | 6.58 | 6.58 | 161.0 | 231.1 | 32.12 | 34.68 | 35.33 | 161.0 | 231.1 | 0.10 | 0.07 | 0.07 |
| 174.0 | 244.1 | 6.54 | 6.50 | 6.52 | 174.0 | 244.1 | 33.36 | 34.70 | 33.62 | 174.0 | 244.1 | 0.09 | 0.07 | 0.07 |
| 184.0 | 254.1 | 6.66 | 6.64 | 6.68 | 184.0 | 254.1 | 34.74 | 35.43 | 32.56 | 184.0 | 254.1 | 0.10 | 0.08 | 0.08 |
| 194.0 | 264.1 | 6.82 | 6.80 | 6.85 | 194.0 | 264.1 | 34.23 | 35.18 | 32.67 | 194.0 | 264.1 | 0.09 | 0.07 | 0.08 |
| 214.0 | 284.1 | 6.70 | 6.66 | 6.67 | 214.0 | 284.1 | 34.32 | 35.36 | 35.80 | 214.0 | 284.1 | 0.09 | 0.07 | 0.07 |
| 224.0 | 294.1 | 6.58 | 6.53 | 6.52 | 224.0 | 294.1 | 33.61 | 34.90 | 35.55 | 224.0 | 294.1 | 0.10 | 0.08 | 0.06 |
| 244.0 | 314.1 | 6.80 | 6.75 | 6.71 | 244.0 | 314.1 | 31.54 | 33.90 | 35.04 | 244.0 | 314.1 | 0.17 | 0.12 | 0.09 |
| 264.0 | 334.1 | 6.90 | 6.84 | 6.79 | 264.0 | 334.1 | 30.15 | 32.17 | 33.86 | 264.0 | 334.1 | 0.23 | 0.15 | 0.10 |
| 274.0 | 344.1 | 6.80 | 6.72 | 6.66 | 274.0 | 344.1 | 29.38 | 31.64 | 32.66 | 274.0 | 344.1 | 0.28 | 0.18 | 0.12 |
| 294.0 | 364.1 | 6.90 | 6.81 | 6.74 | 294.0 | 364.1 | 27.00 | 29.14 | 29.67 | 294.0 | 364.1 | 0.48 | 0.30 | 0.19 |
| 304.0 | 374.1 | 7.16 | 7.07 | 6.99 | 304.0 | 374.1 | 25.80 | 27.92 | 28.56 | 304.0 | 374.1 | 0.59 | 0.38 | 0.24 |
| 324.0 | 394.1 | 7.27 | 7.14 | 7.04 | 324.0 | 394.1 | 23.73 | 26.10 | 27.51 | 324.0 | 394.1 | 0.90 | 0.56 | 0.36 |
| 344.0 | 414.1 | 7.28 | 7.13 | 7.01 | 344.0 | 414.1 | 22.33 | 24.53 | 26.22 | 344.0 | 414.1 | 1.24 | 0.76 | 0.48 |
| 354.0 | 424.1 | 7.37 | 7.23 | 7.11 | 354.0 | 424.1 | 21.63 | 23.78 | 25.63 | 354.0 | 424.1 | 1.44 | 0.90 | 0.56 |
| 374.0 | 444.1 | 7.58 | 7.42 | 7.28 | 374.0 | 444.1 | 20.68 | 22.78 | 24.83 | 374.0 | 444.1 | 1.79 | 1.10 | 0.67 |
| 394.0 | 464.1 | 7.65 | 7.45 | 7.28 | 394.0 | 464.1 | 19.50 | 21.55 | 23.58 | 394.0 | 464.1 | 2.37 | 1.47 | 0.89 |
| 404.0 | 474.1 | 7.73 | 7.51 | 7.34 | 404.0 | 474.1 | 18.73 | 20.75 | 22.78 | 404.0 | 474.1 | 2.71 | 1.73 | 1.07 |
| 424.0 | 494.1 | 8.00 | 7.75 | 7.56 | 424.0 | 494.1 | 17.54 | 19.57 | 21.62 | 424.0 | 494.1 | 3.35 | 2.26 | 1.42 |
| 434.0 | 504.1 | 8.12 | 7.86 | 7.65 | 434.0 | 504.1 | 17.33 | 19.39 | 21.44 | 434.0 | 504.1 | 3.51 | 2.40 | 1.51 |
| 454.0 | 524.1 | 8.11 | 7.82 | 7.61 | 454.0 | 524.1 | 16.85 | 18.88 | 20.95 | 454.0 | 524.1 | 3.76 | 2.64 | 1.70 |
| 474.0 | 544.1 | 8.27 | 7.96 | 7.74 | 474.0 | 544.1 | 16.32 | 18.37 | 20.50 | 474.0 | 544.1 | 4.05 | 2.90 | 1.91 |
| 484.0 | 554.1 | 8.44 | 8.12 | 7.88 | 484.0 | 554.1 | 16.18 | 18.24 | 20.38 | 484.0 | 554.1 | 4.19 | 3.02 | 1.99 |
| 504.0 | 574.1 | 8.62 | 8.25 | 7.97 | 504.0 | 574.1 | 15.37 | 17.33 | 19.50 | 504.0 | 574.1 | 4.70 | 3.53 | 2.42 |
| 514.0 | 584.1 | 8.69 | 8.29 | 7.99 | 514.0 | 584.1 | 14.92 | 16.81 | 18.92 | 514.0 | 584.1 | 4.99 | 3.82 | 2.68 |
| 534.0 | 604.1 | 8.97 | 8.54 | 8.22 | 534.0 | 604.1 | 14.48 | 16.24 | 18.31 | 534.0 | 604.1 | 5.27 | 4.13 | 2.99 |
| 554.0 | 624.1 | 9.12 | 8.67 | 8.34 | 554.0 | 624.1 | 14.56 | 16.28 | 18.31 | 554.0 | 624.1 | 5.27 | 4.14 | 3.00 |
| 564.0 | 634.1 | 9.09 | 8.64 | 8.30 | 564.0 | 634.1 | 14.42 | 16.08 | 18.11 | 564.0 | 634.1 | 5.38 | 4.27 | 3.14 |
| 584.0 | 654.1 | 9.28 | 8.81 | 8.46 | 584.0 | 654.1 | 14.12 | 15.70 | 17.68 | 584.0 | 654.1 | 5.52 | 4.42 | 3.30 |
| 604.0 | 674.1 | 9.59 | 9.07 | 8.69 | 604.0 | 674.1 | 13.91 | 15.40 | 17.28 | 604.0 | 674.1 | 5.70 | 4.63 | 3.52 |

Frequency Mixer

HJK-261H+

Typical Performance Data

| IF (OUT) (MHz) | LO (MHz) | CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=155.1MHz (dB) | IF (OUT) (MHz) | LO (MHz) | CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=136.1MHz (dB) | IF (OUT) (MHz) | LO (MHz) | CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=174.1MHz (dB) |
|----------------|----------|--|----------------|----------|--|----------------|----------|--|
| | | @LO (dBm) | | | @LO (dBm) | | | @LO (dBm) |
| | | +17 | | | +17 | | | +17 |
| 145.1 | 10.0 | 10.50 | 10.9 | 147.0 | 7.16 | 164.1 | 10.0 | 10.37 |
| 135.1 | 20.0 | 9.08 | 25.9 | 162.0 | 7.11 | 159.1 | 15.0 | 9.46 |
| 120.1 | 35.0 | 8.36 | 40.9 | 177.0 | 7.07 | 154.1 | 20.0 | 8.96 |
| 110.1 | 45.0 | 8.05 | 60.9 | 197.0 | 6.95 | 149.1 | 25.0 | 8.62 |
| 95.1 | 60.0 | 7.74 | 75.9 | 212.0 | 6.87 | 144.1 | 30.0 | 8.38 |
| 80.1 | 75.0 | 7.55 | 90.9 | 227.0 | 6.90 | 139.1 | 35.0 | 8.17 |
| 70.1 | 85.0 | 7.36 | 110.9 | 247.0 | 6.91 | 129.1 | 45.0 | 7.93 |
| 55.1 | 100.0 | 7.34 | 125.9 | 262.0 | 6.87 | 124.1 | 50.0 | 7.78 |
| 45.1 | 110.0 | 7.30 | 140.9 | 277.0 | 6.90 | 119.1 | 55.0 | 7.67 |
| 38.1 | 117.0 | 7.27 | 160.9 | 297.0 | 6.88 | 114.1 | 60.0 | 7.60 |
| 35.1 | 120.0 | 7.25 | 175.9 | 312.0 | 6.89 | 109.1 | 65.0 | 7.54 |
| 33.1 | 122.0 | 7.24 | 190.9 | 327.0 | 6.89 | 104.1 | 70.0 | 7.47 |
| 30.1 | 125.0 | 7.21 | 210.9 | 347.0 | 6.91 | 94.1 | 80.0 | 7.36 |
| 27.1 | 128.0 | 7.18 | 225.9 | 362.0 | 6.94 | 89.1 | 85.0 | 7.32 |
| 25.1 | 130.0 | 7.16 | 245.9 | 382.0 | 6.99 | 84.1 | 90.0 | 7.24 |
| 22.1 | 133.0 | 7.14 | 260.9 | 397.0 | 7.01 | 79.1 | 95.0 | 7.21 |
| 20.1 | 135.0 | 7.12 | 275.9 | 412.0 | 7.03 | 74.1 | 100.0 | 7.17 |
| 17.1 | 138.0 | 7.09 | 295.9 | 432.0 | 7.08 | 64.1 | 110.0 | 7.17 |
| 14.1 | 141.0 | 7.07 | 310.9 | 447.0 | 7.11 | 60.1 | 114.0 | 7.14 |
| 12.1 | 143.0 | 7.08 | 325.9 | 462.0 | 7.17 | 58.1 | 116.0 | 7.13 |
| 11.0 | 166.0 | 7.01 | 345.9 | 482.0 | 7.23 | 56.1 | 118.0 | 7.11 |
| 41.0 | 196.0 | 6.90 | 360.9 | 497.0 | 7.26 | 54.1 | 120.0 | 7.11 |
| 81.0 | 236.0 | 6.80 | 375.9 | 512.0 | 7.28 | 52.1 | 122.0 | 7.09 |
| 111.0 | 266.0 | 6.73 | 395.9 | 532.0 | 7.29 | 48.1 | 126.0 | 7.07 |
| 151.0 | 306.0 | 6.79 | 410.9 | 547.0 | 7.33 | 46.1 | 128.0 | 7.07 |
| 191.0 | 346.0 | 6.91 | 425.9 | 562.0 | 7.39 | 44.1 | 130.0 | 7.06 |
| 221.0 | 376.0 | 6.97 | 445.9 | 582.0 | 7.54 | 42.1 | 132.0 | 7.06 |
| 261.0 | 416.0 | 7.07 | 460.9 | 597.0 | 7.58 | 40.1 | 134.0 | 7.05 |
| 301.0 | 456.0 | 7.09 | 480.9 | 617.0 | 7.63 | 36.1 | 138.0 | 7.03 |
| 331.0 | 486.0 | 7.30 | 495.9 | 632.0 | 7.67 | 34.1 | 140.0 | 7.01 |
| 371.0 | 526.0 | 7.41 | 510.9 | 647.0 | 7.68 | 32.1 | 142.0 | 6.99 |
| 411.0 | 566.0 | 7.42 | 530.9 | 667.0 | 7.83 | 30.1 | 144.0 | 6.95 |
| 441.0 | 596.0 | 7.66 | 543.9 | 680.0 | 7.93 | 28.1 | 146.0 | 6.93 |
| 481.0 | 636.0 | 7.73 | 558.9 | 695.0 | 8.04 | 26.1 | 148.0 | 6.90 |
| 511.0 | 666.0 | 7.83 | 578.9 | 715.0 | 8.09 | 22.1 | 152.0 | 6.86 |
| 551.0 | 706.0 | 8.17 | 593.9 | 730.0 | 8.15 | 20.1 | 154.0 | 6.84 |
| 580.0 | 735.0 | 8.24 | 608.9 | 745.0 | 8.22 | 18.1 | 156.0 | 6.83 |
| 595.0 | 750.0 | 8.31 | 628.9 | 765.0 | 8.35 | 16.1 | 158.0 | 6.83 |
| 615.0 | 770.0 | 8.44 | 643.9 | 780.0 | 8.49 | 14.1 | 160.0 | 6.81 |
| 635.0 | 790.0 | 8.65 | 663.9 | 800.0 | 8.60 | 10.1 | 164.0 | 6.75 |

Frequency Mixer

HJK-261H+

Typical Performance Data

| LO (MHz) | LO-RF ISOLATION (dB) | | | LO-IF ISOLATION (dB) | | |
|-------------|-------------------------|-------|-------|-------------------------|-------|-------|
| | @LO (dBm) | | | @LO (dBm) | | |
| | +15 | +17 | +19 | +15 | +17 | +19 |
| 80.1 | 72.24 | 72.32 | 71.68 | 58.27 | 58.45 | 58.54 |
| 91.1 | 71.14 | 71.36 | 71.04 | 57.16 | 57.31 | 57.42 |
| 113.1 | 70.20 | 70.39 | 69.71 | 54.57 | 54.76 | 54.82 |
| 124.1 | 69.93 | 69.99 | 68.60 | 52.86 | 52.99 | 53.05 |
| 146.1 | 64.59 | 64.37 | 63.46 | 49.96 | 50.07 | 50.13 |
| 168.1 | 62.19 | 62.01 | 61.89 | 48.17 | 48.28 | 48.39 |
| 179.1 | 61.42 | 61.33 | 61.24 | 47.19 | 47.26 | 47.36 |
| 206.1 | 59.36 | 59.18 | 59.12 | 43.54 | 43.59 | 43.65 |
| 206.1 | 59.36 | 59.18 | 59.12 | 43.54 | 43.59 | 43.65 |
| 216.1 | 57.74 | 57.55 | 58.01 | 42.07 | 42.12 | 42.21 |
| 226.1 | 56.55 | 56.37 | 59.29 | 40.80 | 40.85 | 41.11 |
| 231.1 | 56.10 | 55.91 | 60.08 | 40.18 | 40.25 | 40.70 |
| 244.1 | 55.10 | 55.48 | 59.96 | 38.71 | 38.78 | 39.71 |
| 254.1 | 54.91 | 55.75 | 60.28 | 38.19 | 38.39 | 39.46 |
| 264.1 | 54.74 | 55.72 | 59.96 | 37.48 | 37.75 | 38.88 |
| 284.1 | 54.68 | 54.99 | 58.67 | 37.28 | 37.36 | 38.37 |
| 294.1 | 55.79 | 55.51 | 57.89 | 37.40 | 37.49 | 38.08 |
| 314.1 | 58.16 | 57.80 | 57.62 | 38.76 | 38.90 | 39.06 |
| 334.1 | 60.39 | 59.95 | 59.60 | 39.96 | 40.10 | 40.26 |
| 344.1 | 61.30 | 60.82 | 60.44 | 40.32 | 40.47 | 40.63 |
| 364.1 | 63.19 | 62.58 | 62.23 | 41.64 | 41.80 | 41.96 |
| 374.1 | 63.90 | 63.21 | 62.79 | 42.30 | 42.46 | 42.62 |
| 394.1 | 65.11 | 64.34 | 63.83 | 43.64 | 43.83 | 44.03 |
| 414.1 | 63.74 | 63.19 | 62.89 | 44.12 | 44.29 | 44.51 |
| 424.1 | 62.92 | 62.41 | 62.17 | 44.40 | 44.57 | 44.80 |
| 444.1 | 62.28 | 61.98 | 61.86 | 44.71 | 44.89 | 45.11 |
| 464.1 | 61.97 | 61.62 | 61.73 | 45.16 | 45.32 | 45.56 |
| 474.1 | 62.25 | 62.07 | 62.11 | 45.60 | 45.81 | 46.03 |
| 494.1 | 62.51 | 62.45 | 62.46 | 46.20 | 46.38 | 46.58 |
| 504.1 | 60.65 | 60.63 | 60.72 | 46.44 | 46.63 | 46.84 |
| 524.1 | 57.68 | 57.71 | 57.75 | 46.37 | 46.57 | 46.76 |
| 544.1 | 55.11 | 55.06 | 54.99 | 46.27 | 46.48 | 46.64 |
| 554.1 | 55.02 | 54.92 | 54.83 | 46.39 | 46.59 | 46.75 |
| 574.1 | 55.21 | 55.09 | 55.01 | 46.62 | 46.79 | 46.95 |
| 584.1 | 55.51 | 55.37 | 55.29 | 46.90 | 47.07 | 47.23 |
| 604.1 | 55.59 | 55.45 | 55.32 | 47.08 | 47.25 | 47.40 |
| 624.1 | 55.06 | 54.91 | 54.75 | 46.95 | 47.12 | 47.24 |
| 634.1 | 54.85 | 54.73 | 54.58 | 46.90 | 47.07 | 47.18 |
| 654.1 | 54.84 | 54.73 | 54.63 | 46.94 | 47.09 | 47.23 |
| 674.1 | 54.95 | 54.83 | 54.69 | 47.23 | 47.38 | 47.48 |

| RF (IN) (MHz) | LO (MHz) | RF-IF ISOLATION (dB) | | |
|---------------------|-------------|-------------------------|-------|-------|
| | | @LO (dBm) | | |
| | | +15 | +17 | +19 |
| 10.0 | 80.1 | 36.90 | 34.18 | 32.77 |
| 21.0 | 91.1 | 37.43 | 34.61 | 32.58 |
| 43.0 | 113.1 | 30.71 | 29.41 | 29.09 |
| 54.0 | 124.1 | 26.94 | 26.23 | 26.22 |
| 76.0 | 146.1 | 25.62 | 25.54 | 26.65 |
| 98.0 | 168.1 | 30.32 | 30.43 | 32.15 |
| 109.0 | 179.1 | 32.21 | 32.34 | 33.72 |
| 136.0 | 206.1 | 36.54 | 37.01 | 37.69 |
| 136.0 | 206.1 | 36.54 | 37.01 | 37.69 |
| 146.0 | 216.1 | 39.19 | 39.64 | 41.14 |
| 156.0 | 226.1 | 40.28 | 40.45 | 45.21 |
| 161.0 | 231.1 | 41.22 | 41.22 | 47.13 |
| 174.0 | 244.1 | 43.24 | 43.62 | 50.53 |
| 184.0 | 254.1 | 43.42 | 44.14 | 51.87 |
| 194.0 | 264.1 | 42.88 | 43.77 | 50.19 |
| 214.0 | 284.1 | 40.18 | 41.16 | 43.48 |
| 224.0 | 294.1 | 38.89 | 39.58 | 41.06 |
| 244.0 | 314.1 | 37.49 | 37.94 | 37.94 |
| 264.0 | 334.1 | 36.26 | 36.72 | 37.46 |
| 274.0 | 344.1 | 35.94 | 36.33 | 37.32 |
| 294.0 | 364.1 | 35.25 | 35.25 | 35.34 |
| 304.0 | 374.1 | 35.92 | 35.82 | 35.75 |
| 324.0 | 394.1 | 35.15 | 35.02 | 34.88 |
| 344.0 | 414.1 | 35.43 | 35.32 | 35.17 |
| 354.0 | 424.1 | 34.70 | 34.61 | 34.45 |
| 374.0 | 444.1 | 34.81 | 34.80 | 34.94 |
| 394.0 | 464.1 | 34.96 | 34.97 | 35.36 |
| 404.0 | 474.1 | 34.42 | 34.41 | 34.59 |
| 424.0 | 494.1 | 34.03 | 34.00 | 33.93 |
| 434.0 | 504.1 | 34.25 | 34.22 | 34.22 |
| 454.0 | 524.1 | 34.78 | 34.75 | 34.67 |
| 474.0 | 544.1 | 33.51 | 33.45 | 33.32 |
| 484.0 | 554.1 | 34.28 | 34.21 | 34.12 |
| 504.0 | 574.1 | 33.99 | 33.86 | 33.75 |
| 514.0 | 584.1 | 33.70 | 33.61 | 33.52 |
| 534.0 | 604.1 | 32.92 | 32.73 | 32.60 |
| 554.0 | 624.1 | 33.00 | 32.81 | 32.66 |
| 564.0 | 634.1 | 32.68 | 32.47 | 32.40 |
| 584.0 | 654.1 | 31.98 | 31.66 | 31.57 |
| 604.0 | 674.1 | 32.49 | 32.01 | 31.84 |

Frequency Mixer

HJK-261H+

Typical Performance Data

| RF (IN) (MHz) | LO (MHz) | RF VSWR (:1) | | | LO (MHz) | LO VSWR (:1) | | | IF (OUT) (MHz) | IF VSWR @LO=284.1MHz (:1) | | |
|---------------------|-------------|-----------------|------|------|-------------|-----------------|------|------|----------------------|---------------------------------|------|------|
| | | @LO (dBm) | | | | @LO (dBm) | | | | @LO (dBm) | | |
| | | +15 | +17 | +19 | | +15 | +17 | +19 | | +15 | +17 | +19 |
| 10.0 | 80.1 | 2.11 | 2.18 | 2.26 | 80.1 | 3.91 | 3.89 | 3.85 | 10.0 | 1.18 | 1.19 | 1.21 |
| 21.0 | 91.1 | 2.10 | 2.17 | 2.26 | 91.1 | 3.90 | 3.89 | 3.85 | 20.0 | 1.10 | 1.11 | 1.13 |
| 43.0 | 113.1 | 1.95 | 2.02 | 2.10 | 113.1 | 3.84 | 3.83 | 3.80 | 30.0 | 1.10 | 1.12 | 1.14 |
| 54.0 | 124.1 | 1.98 | 2.06 | 2.15 | 124.1 | 3.82 | 3.80 | 3.77 | 40.0 | 1.13 | 1.15 | 1.17 |
| 76.0 | 146.1 | 2.00 | 2.07 | 2.15 | 146.1 | 3.75 | 3.73 | 3.68 | 50.0 | 1.14 | 1.16 | 1.18 |
| 98.0 | 168.1 | 1.99 | 2.06 | 2.13 | 168.1 | 3.71 | 3.69 | 3.66 | 60.0 | 1.15 | 1.17 | 1.19 |
| 109.0 | 179.1 | 2.00 | 2.07 | 2.14 | 179.1 | 3.68 | 3.67 | 3.65 | 70.0 | 1.14 | 1.15 | 1.17 |
| 136.0 | 206.1 | 1.98 | 2.05 | 2.10 | 206.1 | 3.42 | 3.42 | 3.41 | 80.0 | 1.10 | 1.11 | 1.13 |
| 136.0 | 206.1 | 1.98 | 2.05 | 2.10 | 206.1 | 3.42 | 3.42 | 3.41 | 90.0 | 1.10 | 1.11 | 1.13 |
| 146.0 | 216.1 | 2.03 | 2.09 | 2.14 | 216.1 | 3.24 | 3.24 | 3.19 | 100.0 | 1.16 | 1.17 | 1.19 |
| 156.0 | 226.1 | 2.06 | 2.11 | 2.20 | 226.1 | 3.01 | 3.00 | 2.79 | 110.0 | 1.17 | 1.19 | 1.21 |
| 161.0 | 231.1 | 2.06 | 2.11 | 2.22 | 231.1 | 2.86 | 2.85 | 2.57 | 120.0 | 1.15 | 1.16 | 1.19 |
| 174.0 | 244.1 | 2.01 | 2.07 | 2.19 | 244.1 | 2.39 | 2.34 | 2.11 | 130.0 | 1.13 | 1.15 | 1.17 |
| 184.0 | 254.1 | 2.01 | 2.07 | 2.18 | 254.1 | 1.98 | 1.92 | 1.83 | 140.0 | 1.15 | 1.16 | 1.18 |
| 194.0 | 264.1 | 2.02 | 2.08 | 2.18 | 264.1 | 1.60 | 1.57 | 1.61 | 150.0 | 1.16 | 1.18 | 1.20 |
| 214.0 | 284.1 | 1.99 | 2.04 | 2.12 | 284.1 | 1.31 | 1.33 | 1.48 | 160.0 | 1.19 | 1.21 | 1.23 |
| 224.0 | 294.1 | 1.94 | 1.98 | 2.04 | 294.1 | 1.49 | 1.49 | 1.57 | 170.0 | 1.22 | 1.24 | 1.26 |
| 244.0 | 314.1 | 1.90 | 1.94 | 1.99 | 314.1 | 1.92 | 1.93 | 1.93 | 180.0 | 1.19 | 1.21 | 1.24 |
| 264.0 | 334.1 | 1.85 | 1.90 | 1.94 | 334.1 | 2.26 | 2.27 | 2.27 | 190.0 | 1.15 | 1.17 | 1.19 |
| 274.0 | 344.1 | 1.81 | 1.85 | 1.90 | 344.1 | 2.40 | 2.40 | 2.40 | 200.0 | 1.19 | 1.20 | 1.23 |
| 294.0 | 364.1 | 1.79 | 1.84 | 1.88 | 364.1 | 2.60 | 2.60 | 2.59 | 210.0 | 1.24 | 1.26 | 1.29 |
| 304.0 | 374.1 | 1.78 | 1.83 | 1.87 | 374.1 | 2.68 | 2.68 | 2.68 | 220.0 | 1.25 | 1.27 | 1.30 |
| 324.0 | 394.1 | 1.75 | 1.79 | 1.83 | 394.1 | 2.81 | 2.81 | 2.80 | 230.0 | 1.24 | 1.26 | 1.28 |
| 344.0 | 414.1 | 1.80 | 1.83 | 1.86 | 414.1 | 2.91 | 2.91 | 2.91 | 240.0 | 1.24 | 1.26 | 1.29 |
| 354.0 | 424.1 | 1.80 | 1.83 | 1.86 | 424.1 | 2.95 | 2.95 | 2.95 | 250.0 | 1.24 | 1.26 | 1.28 |
| 374.0 | 444.1 | 1.81 | 1.83 | 1.86 | 444.1 | 3.01 | 3.00 | 3.00 | 260.0 | 1.25 | 1.27 | 1.30 |
| 394.0 | 464.1 | 1.88 | 1.89 | 1.91 | 464.1 | 3.05 | 3.05 | 3.04 | 270.0 | 1.31 | 1.33 | 1.36 |
| 404.0 | 474.1 | 1.89 | 1.91 | 1.93 | 474.1 | 3.07 | 3.07 | 3.06 | 280.0 | 1.36 | 1.38 | 1.42 |
| 424.0 | 494.1 | 1.92 | 1.94 | 1.95 | 494.1 | 3.11 | 3.11 | 3.11 | 290.0 | 1.29 | 1.31 | 1.34 |
| 434.0 | 504.1 | 1.97 | 1.98 | 1.99 | 504.1 | 3.13 | 3.13 | 3.12 | 300.0 | 1.27 | 1.29 | 1.32 |
| 454.0 | 524.1 | 2.03 | 2.03 | 2.04 | 524.1 | 3.16 | 3.16 | 3.16 | 310.0 | 1.31 | 1.33 | 1.36 |
| 474.0 | 544.1 | 2.08 | 2.08 | 2.08 | 544.1 | 3.19 | 3.19 | 3.19 | 320.0 | 1.36 | 1.38 | 1.41 |
| 484.0 | 554.1 | 2.13 | 2.12 | 2.13 | 554.1 | 3.20 | 3.20 | 3.20 | 330.0 | 1.37 | 1.39 | 1.43 |
| 504.0 | 574.1 | 2.19 | 2.19 | 2.19 | 574.1 | 3.22 | 3.22 | 3.22 | 340.0 | 1.38 | 1.40 | 1.44 |
| 514.0 | 584.1 | 2.21 | 2.21 | 2.20 | 584.1 | 3.23 | 3.23 | 3.24 | 350.0 | 1.38 | 1.40 | 1.44 |
| 534.0 | 604.1 | 2.30 | 2.29 | 2.28 | 604.1 | 3.24 | 3.25 | 3.26 | 360.0 | 1.36 | 1.38 | 1.42 |
| 554.0 | 624.1 | 2.36 | 2.35 | 2.34 | 624.1 | 3.26 | 3.27 | 3.28 | 370.0 | 1.38 | 1.40 | 1.44 |
| 564.0 | 634.1 | 2.39 | 2.37 | 2.36 | 634.1 | 3.28 | 3.28 | 3.29 | 380.0 | 1.46 | 1.48 | 1.52 |
| 584.0 | 654.1 | 2.47 | 2.45 | 2.44 | 654.1 | 3.31 | 3.32 | 3.33 | 390.0 | 1.49 | 1.51 | 1.55 |
| 604.0 | 674.1 | 2.52 | 2.51 | 2.49 | 674.1 | 3.32 | 3.33 | 3.35 | 405.0 | 1.43 | 1.46 | 1.49 |

Harmonics Tables

RF HARMONICS ORDER

| | (-dBm) | (-dBc) | | | | | | | | | | |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | --- | --- | 14.22 | 35.80 | 24.80 | 36.91 | 28.16 | 32.01 | 34.73 | 49.21 | 36.39 | 54.53 |
| 1 | --- | 37.24 | --- | 36.52 | 11.60 | 36.73 | 20.47 | 38.44 | 26.19 | 39.68 | 37.63 | 41.33 |
| 2 | 90.70 | 70.06 | 64.54 | 66.50 | 70.59 | 68.76 | 77.30 | 71.83 | 79.59 | 74.14 | 77.16 | 77.84 |
| 3 | 81.09 | 87.44 | 65.64 | 86.23 | 70.81 | 82.99 | 67.79 | 84.00 | 68.62 | 84.17 | 70.44 | 92.73 |
| 4 | 128.99 | 112.26 | 106.50 | 103.38 | 105.67 | 104.30 | 107.29 | 119.49 | 107.62 | 106.41 | 108.86 | 116.31 |
| 5 | 128.42 | 116.91 | 109.59 | 110.42 | 111.22 | 110.72 | 107.81 | 117.69 | 108.08 | 115.19 | 111.05 | 118.18 |
| 6 | 128.25 | 113.33 | 105.91 | 102.94 | 103.97 | 102.86 | 103.58 | 115.29 | 104.09 | 118.15 | 106.18 | 117.52 |
| 7 | 128.47 | 118.22 | 109.43 | 118.72 | 95.94 | 117.98 | 96.66 | 117.46 | 108.30 | 117.73 | 111.45 | 118.47 |
| 8 | 126.85 | 119.24 | 112.13 | 118.44 | 102.26 | 107.86 | 102.64 | 109.33 | 112.72 | 117.74 | 114.13 | 117.26 |
| 9 | 127.79 | 118.78 | 118.66 | 118.29 | 117.69 | 112.90 | 112.62 | 110.48 | 114.07 | 117.38 | 118.67 | 117.95 |
| 10 | 128.59 | 118.50 | 116.97 | 115.27 | 118.94 | 103.72 | 110.07 | 103.04 | 110.63 | 113.84 | 117.53 | 118.19 |
| | RF CAL | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

LO HARMONICS ORDER

Test conditions: RF IN: 155 MHz; 0 dBm.
 LO IN: 265 MHz; +17.00 dBm
 IF OUT: 110 MHz; -6.88 dBm

RF HARMONICS ORDER

| | (-dBm) | (-dBc) | | | | | | | | | | |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | --- | --- | 23.89 | 43.69 | 35.32 | 49.66 | 38.79 | 42.65 | 46.34 | 60.03 | 47.08 | 66.02 |
| 1 | --- | 36.46 | --- | 35.38 | 12.08 | 35.44 | 21.52 | 37.21 | 27.75 | 38.85 | 39.98 | 41.38 |
| 2 | 70.67 | 57.91 | 54.58 | 56.06 | 59.93 | 57.43 | 73.23 | 60.94 | 79.57 | 62.66 | 67.38 | 64.71 |
| 3 | 50.64 | 73.14 | 57.55 | 70.63 | 54.98 | 67.96 | 50.12 | 70.43 | 51.24 | 72.09 | 53.03 | 89.25 |
| 4 | 95.00 | 83.96 | 76.64 | 84.28 | 77.45 | 83.66 | 80.76 | 85.86 | 85.75 | 88.74 | 87.01 | 87.63 |
| 5 | 93.40 | 85.43 | 74.43 | 86.41 | 77.71 | 84.20 | 74.85 | 82.04 | 74.87 | 83.10 | 76.08 | 83.49 |
| 6 | 124.12 | 102.66 | 93.41 | 100.62 | 93.42 | 102.61 | 94.30 | 107.11 | 96.21 | 111.43 | 99.87 | 105.43 |
| 7 | 125.32 | 114.79 | 88.35 | 107.96 | 89.90 | 106.25 | 90.05 | 107.29 | 88.71 | 105.44 | 89.85 | 102.10 |
| 8 | 126.17 | 115.78 | 104.36 | 104.79 | 103.14 | 92.25 | 102.73 | 92.40 | 109.48 | 105.49 | 108.11 | 116.23 |
| 9 | 124.61 | 119.61 | 105.08 | 118.61 | 104.16 | 107.13 | 109.37 | 107.96 | 106.63 | 119.66 | 103.98 | 119.98 |
| 10 | 126.19 | 120.75 | 120.15 | 118.16 | 118.37 | 105.87 | 114.14 | 104.72 | 113.90 | 117.17 | 120.07 | 120.97 |
| | RF CAL | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

LO HARMONICS ORDER

Test conditions: RF IN: 155 MHz; +10 dBm.
 LO IN: 265 MHz; +17.00 dBm
 IF OUT: 110 MHz; 3.13 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.