

Frequency Mixer

ADE-25MH

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=+9dBm (dB) | | |
|---------------|----------|--|------|------|---------------|----------|-----------------|-------|-------|---------------|----------|-------------------------------|------|------|
| | | @LO (dBm) | | | | | @LO (dBm) | | | | | @LO (dBm) | | |
| | | +10 | +13 | +16 | | | +10 | +13 | +16 | | | +10 | +13 | +16 |
| 5.0 | 35.0 | 7.05 | 7.36 | 6.71 | 10.1 | 40.1 | 27.27 | 26.96 | 26.78 | 10.1 | 40.1 | 1.24 | 0.81 | 0.51 |
| 10.1 | 40.1 | 7.04 | 6.71 | 6.56 | 109.9 | 139.9 | 23.06 | 23.84 | 23.40 | 109.9 | 139.9 | 1.32 | 0.90 | 0.60 |
| 109.9 | 139.9 | 7.37 | 7.06 | 6.90 | 209.6 | 239.6 | 21.51 | 20.31 | 20.14 | 209.6 | 239.6 | 1.38 | 0.95 | 0.65 |
| 209.6 | 239.6 | 7.41 | 7.12 | 6.99 | 309.4 | 339.4 | 18.62 | 18.73 | 20.24 | 309.4 | 339.4 | 1.39 | 0.97 | 0.70 |
| 309.4 | 339.4 | 7.53 | 7.26 | 7.04 | 409.1 | 439.1 | 17.35 | 18.73 | 22.66 | 409.1 | 439.1 | 1.44 | 1.06 | 0.79 |
| 409.1 | 439.1 | 7.66 | 7.31 | 7.07 | 508.9 | 538.9 | 17.40 | 20.44 | 25.99 | 508.9 | 538.9 | 1.45 | 1.12 | 0.85 |
| 508.9 | 538.9 | 7.78 | 7.34 | 7.11 | 608.6 | 638.6 | 17.97 | 22.54 | 27.24 | 608.6 | 638.6 | 1.56 | 1.24 | 0.94 |
| 608.6 | 638.6 | 7.82 | 7.37 | 7.12 | 708.4 | 738.4 | 18.67 | 25.18 | 24.53 | 708.4 | 738.4 | 1.68 | 1.36 | 1.05 |
| 708.4 | 738.4 | 7.85 | 7.37 | 7.12 | 808.1 | 838.1 | 19.62 | 24.45 | 24.66 | 808.1 | 838.1 | 1.68 | 1.33 | 1.00 |
| 808.1 | 838.1 | 7.91 | 7.44 | 7.22 | 907.9 | 937.9 | 22.50 | 22.63 | 22.43 | 907.9 | 937.9 | 1.87 | 1.48 | 1.13 |
| 907.9 | 937.9 | 7.77 | 7.38 | 7.15 | 1007.7 | 1037.7 | 22.65 | 20.94 | 21.10 | 1007.7 | 1037.7 | 1.96 | 1.54 | 1.19 |
| 1007.7 | 1037.7 | 7.70 | 7.33 | 7.14 | 1107.4 | 1137.4 | 19.91 | 19.79 | 20.97 | 1107.4 | 1137.4 | 2.03 | 1.62 | 1.28 |
| 1107.4 | 1137.4 | 7.67 | 7.32 | 7.13 | 1207.2 | 1237.2 | 18.65 | 19.31 | 20.03 | 1207.2 | 1237.2 | 1.89 | 1.51 | 1.21 |
| 1207.2 | 1237.2 | 7.83 | 7.49 | 7.28 | 1306.9 | 1336.9 | 18.65 | 19.47 | 20.63 | 1306.9 | 1336.9 | 1.73 | 1.39 | 1.12 |
| 1306.9 | 1336.9 | 8.07 | 7.73 | 7.51 | 1406.7 | 1436.7 | 18.77 | 19.78 | 21.01 | 1406.7 | 1436.7 | 1.52 | 1.19 | 0.95 |
| 1406.7 | 1436.7 | 8.34 | 8.02 | 7.79 | 1506.4 | 1536.4 | 18.60 | 20.08 | 20.83 | 1506.4 | 1536.4 | 1.40 | 1.06 | 0.82 |
| 1506.4 | 1536.4 | 8.48 | 8.17 | 7.95 | 1606.2 | 1636.2 | 18.34 | 19.43 | 20.15 | 1606.2 | 1636.2 | 1.39 | 1.04 | 0.79 |
| 1606.2 | 1636.2 | 8.50 | 8.16 | 7.98 | 1706.0 | 1736.0 | 18.68 | 19.72 | 20.18 | 1706.0 | 1736.0 | 1.26 | 0.96 | 0.72 |
| 1706.0 | 1736.0 | 8.55 | 8.19 | 7.99 | 1805.7 | 1835.7 | 18.19 | 19.19 | 20.23 | 1805.7 | 1835.7 | 1.17 | 0.90 | 0.68 |
| 1805.7 | 1835.7 | 8.71 | 8.28 | 8.03 | 1905.5 | 1935.5 | 17.48 | 19.08 | 20.15 | 1905.5 | 1935.5 | 1.01 | 0.76 | 0.58 |
| 1905.5 | 1935.5 | 8.69 | 8.25 | 8.03 | 2025.2 | 2055.2 | 17.09 | 17.99 | 19.03 | 2025.2 | 2055.2 | 0.98 | 0.71 | 0.54 |
| 2025.2 | 2055.2 | 8.69 | 8.26 | 8.05 | 2124.9 | 2154.9 | 17.55 | 18.21 | 19.06 | 2124.9 | 2154.9 | 0.89 | 0.64 | 0.47 |
| 2124.9 | 2154.9 | 8.74 | 8.28 | 8.08 | 2244.6 | 2274.6 | 18.02 | 18.68 | 19.24 | 2244.6 | 2274.6 | 0.81 | 0.57 | 0.43 |
| 2244.6 | 2274.6 | 8.65 | 8.19 | 8.00 | 2344.4 | 2374.4 | 17.74 | 18.48 | 19.09 | 2344.4 | 2374.4 | 0.81 | 0.58 | 0.43 |
| 2344.4 | 2374.4 | 8.59 | 8.15 | 7.94 | 2464.1 | 2494.1 | 18.45 | 18.87 | 19.67 | 2464.1 | 2494.1 | 0.84 | 0.59 | 0.46 |
| 2464.1 | 2494.1 | 8.65 | 8.19 | 7.98 | 2563.9 | 2593.9 | 18.76 | 19.37 | 20.22 | 2563.9 | 2593.9 | 0.80 | 0.56 | 0.44 |
| 2563.9 | 2593.9 | 8.70 | 8.26 | 8.04 | 2683.6 | 2713.6 | 18.90 | 18.81 | 19.58 | 2683.6 | 2713.6 | 0.79 | 0.52 | 0.40 |
| 2683.6 | 2713.6 | 8.64 | 8.19 | 7.98 | 2783.3 | 2813.3 | 19.02 | 18.91 | 19.49 | 2783.3 | 2813.3 | 0.87 | 0.58 | 0.44 |
| 2783.3 | 2813.3 | 8.68 | 8.24 | 8.02 | 2903.0 | 2933.0 | 19.11 | 19.14 | 19.39 | 2903.0 | 2933.0 | 0.94 | 0.62 | 0.46 |
| 2903.0 | 2933.0 | 8.72 | 8.27 | 8.07 | 3002.8 | 3032.8 | 18.72 | 18.71 | 19.40 | 3002.8 | 3032.8 | 1.04 | 0.69 | 0.51 |
| 3002.8 | 3032.8 | 8.81 | 8.34 | 8.13 | 3122.5 | 3152.5 | 17.81 | 18.43 | 18.69 | 3122.5 | 3152.5 | 1.10 | 0.74 | 0.55 |
| 3122.5 | 3152.5 | 8.86 | 8.42 | 8.20 | 3222.2 | 3252.2 | 16.89 | 17.83 | 18.53 | 3222.2 | 3252.2 | 1.23 | 0.84 | 0.63 |
| 3222.2 | 3252.2 | 9.03 | 8.61 | 8.39 | 3342.0 | 3372.0 | 16.42 | 17.29 | 18.14 | 3342.0 | 3372.0 | 1.27 | 0.87 | 0.63 |
| 3342.0 | 3372.0 | 9.16 | 8.73 | 8.50 | 3441.7 | 3471.7 | 15.80 | 16.56 | 17.54 | 3441.7 | 3471.7 | 1.43 | 0.99 | 0.74 |
| 3441.7 | 3471.7 | 9.29 | 8.88 | 8.64 | 3561.4 | 3591.4 | 15.06 | 16.22 | 16.86 | 3561.4 | 3591.4 | 1.58 | 1.11 | 0.82 |
| 3561.4 | 3591.4 | 9.37 | 8.99 | 8.77 | 3661.2 | 3691.2 | 14.64 | 15.70 | 16.70 | 3661.2 | 3691.2 | 1.70 | 1.24 | 0.94 |
| 3661.2 | 3691.2 | 9.63 | 9.23 | 9.03 | 3780.9 | 3810.9 | 14.08 | 15.08 | 15.94 | 3780.9 | 3810.9 | 1.80 | 1.30 | 1.01 |
| 3780.9 | 3810.9 | 9.85 | 9.47 | 9.27 | 3880.6 | 3910.6 | 13.76 | 14.72 | 15.68 | 3880.6 | 3910.6 | 1.78 | 1.28 | 1.00 |
| 3880.6 | 3910.6 | 10.04 | 9.65 | 9.43 | 4000.3 | 4030.3 | 13.02 | 13.92 | 14.69 | 4000.3 | 4030.3 | 1.97 | 1.42 | 1.12 |
| 4000.3 | 4030.3 | 10.40 | 9.99 | 9.74 | 4100.1 | 4130.1 | 13.44 | 14.31 | 15.09 | 4100.1 | 4130.1 | 1.79 | 1.27 | 1.01 |
| 4100.1 | 4130.1 | | | | | | | | | | | | | |



Frequency Mixer

ADE-25MH

Typical Performance Data

| IF (OUT) (MHz) | LO (MHz) | CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1250MHz (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)=2500.1MHz (dB) |
|----------------|----------|---|----------------|----------|---|----------------|----------|---|
| | | @LO (dBm) | | | @LO (dBm) | | | @LO (dBm) |
| | | +13 | | | +13 | | | +13 |
| 1239.9 | 10.1 | 7.26 | 10.0 | 20.1 | 7.11 | 1500.0 | 1000.1 | 9.26 |
| 1199.6 | 50.4 | 7.39 | 50.8 | 60.9 | 6.98 | 1459.2 | 1040.9 | 9.13 |
| 1159.2 | 90.8 | 7.45 | 91.6 | 101.7 | 6.98 | 1418.4 | 1081.7 | 9.07 |
| 1118.9 | 131.1 | 7.52 | 132.5 | 142.6 | 6.95 | 1377.5 | 1122.6 | 9.00 |
| 1078.6 | 171.4 | 7.57 | 173.3 | 183.4 | 6.99 | 1336.7 | 1163.4 | 8.92 |
| 1038.3 | 211.7 | 7.60 | 214.1 | 224.2 | 6.98 | 1295.9 | 1204.2 | 8.87 |
| 997.9 | 252.1 | 7.65 | 254.9 | 265.0 | 6.99 | 1255.1 | 1245.0 | 8.87 |
| 977.8 | 272.2 | 7.67 | 295.8 | 305.9 | 7.02 | 1214.2 | 1285.9 | 8.76 |
| 937.4 | 312.6 | 7.67 | 336.6 | 346.7 | 7.00 | 1173.4 | 1326.7 | 8.69 |
| 917.3 | 332.7 | 7.73 | 377.4 | 387.5 | 7.00 | 1132.6 | 1367.5 | 8.69 |
| 876.9 | 373.1 | 7.74 | 418.2 | 428.3 | 6.99 | 1091.8 | 1408.3 | 8.66 |
| 856.8 | 393.2 | 7.73 | 459.0 | 469.1 | 6.98 | 1051.0 | 1449.1 | 8.64 |
| 816.5 | 433.5 | 7.75 | 499.9 | 510.0 | 6.98 | 1010.1 | 1490.0 | 8.63 |
| 796.3 | 453.7 | 7.70 | 540.7 | 550.8 | 6.94 | 969.3 | 1530.8 | 8.60 |
| 756.0 | 494.0 | 7.71 | 581.5 | 591.6 | 6.94 | 928.5 | 1571.6 | 8.59 |
| 735.8 | 514.2 | 7.67 | 622.3 | 632.4 | 6.93 | 887.7 | 1612.4 | 8.63 |
| 695.5 | 554.5 | 7.62 | 663.2 | 673.3 | 6.97 | 846.8 | 1653.3 | 8.61 |
| 675.3 | 574.7 | 7.63 | 704.0 | 714.1 | 6.99 | 806.0 | 1694.1 | 8.60 |
| 635.0 | 615.0 | 7.62 | 744.8 | 754.9 | 6.95 | 765.2 | 1734.9 | 8.61 |
| 614.8 | 635.2 | 7.58 | 785.6 | 795.7 | 6.95 | 724.4 | 1775.7 | 8.63 |
| 574.5 | 675.5 | 7.62 | 826.4 | 836.5 | 6.92 | 683.6 | 1816.5 | 8.66 |
| 554.3 | 695.7 | 7.54 | 867.3 | 877.4 | 6.92 | 642.7 | 1857.4 | 8.66 |
| 514.0 | 736.0 | 7.57 | 908.1 | 918.2 | 6.90 | 601.9 | 1898.2 | 8.65 |
| 493.8 | 756.2 | 7.56 | 948.9 | 959.0 | 6.91 | 561.1 | 1939.0 | 8.61 |
| 453.5 | 796.5 | 7.55 | 989.7 | 999.8 | 6.92 | 520.3 | 1979.8 | 8.58 |
| 433.3 | 816.7 | 7.58 | 1030.5 | 1040.6 | 6.90 | 479.5 | 2020.6 | 8.56 |
| 393.0 | 857.0 | 7.57 | 1071.4 | 1081.5 | 6.91 | 438.6 | 2061.5 | 8.51 |
| 372.9 | 877.1 | 7.53 | 1112.2 | 1122.3 | 6.90 | 397.8 | 2102.3 | 8.50 |
| 332.5 | 917.5 | 7.54 | 1153.0 | 1163.1 | 6.92 | 357.0 | 2143.1 | 8.43 |
| 312.4 | 937.6 | 7.54 | 1193.8 | 1203.9 | 6.97 | 316.2 | 2183.9 | 8.40 |
| 272.0 | 978.0 | 7.53 | 1234.7 | 1244.8 | 7.00 | 275.3 | 2224.8 | 8.39 |
| 251.9 | 998.1 | 7.54 | 1255.1 | 1265.2 | 7.03 | 254.9 | 2245.2 | 8.36 |
| 211.5 | 1038.5 | 7.51 | 1295.9 | 1306.0 | 7.05 | 214.1 | 2286.0 | 8.35 |
| 191.4 | 1058.6 | 7.51 | 1316.3 | 1326.4 | 7.08 | 193.7 | 2306.4 | 8.35 |
| 151.0 | 1099.0 | 7.49 | 1357.1 | 1367.2 | 7.13 | 152.9 | 2347.2 | 8.29 |
| 130.9 | 1119.1 | 7.49 | 1377.5 | 1387.6 | 7.18 | 132.5 | 2367.6 | 8.28 |
| 90.6 | 1159.4 | 7.51 | 1418.4 | 1428.5 | 7.23 | 91.6 | 2408.5 | 8.24 |
| 70.4 | 1179.6 | 7.50 | 1438.8 | 1448.9 | 7.27 | 71.2 | 2428.9 | 8.20 |
| 30.1 | 1219.9 | 7.51 | 1479.6 | 1489.7 | 7.32 | 30.4 | 2469.7 | 8.20 |
| 9.9 | 1240.1 | 7.72 | 1500.0 | 1510.1 | 7.35 | 10.0 | 2490.1 | 8.36 |



Frequency Mixer

ADE-25MH

Typical Performance Data

| LO (MHz) | LO-RF ISOLATION (dB) | | | LO-IF ISOLATION (dB) | | |
|-------------|-------------------------|-------|-------|-------------------------|-------|-------|
| | @LO (dBm) | | | @LO (dBm) | | |
| | +10 | +13 | +16 | +10 | +13 | +16 |
| 5.0 | 45.3 | 49.9 | 54.7 | 30.8 | 34.2 | 37.5 |
| 10.1 | 49.45 | 53.35 | 56.75 | 31.79 | 34.84 | 37.93 |
| 109.9 | 48.52 | 48.69 | 48.49 | 32.48 | 35.30 | 37.48 |
| 209.6 | 42.15 | 42.04 | 42.16 | 32.38 | 34.51 | 35.40 |
| 309.4 | 38.45 | 38.62 | 38.89 | 32.44 | 33.49 | 33.27 |
| 409.1 | 35.94 | 36.25 | 36.73 | 32.64 | 32.50 | 31.69 |
| 508.9 | 34.17 | 34.71 | 35.36 | 32.30 | 31.32 | 30.22 |
| 608.6 | 32.88 | 33.60 | 34.36 | 31.98 | 30.36 | 29.10 |
| 708.4 | 31.87 | 32.80 | 33.71 | 31.52 | 29.47 | 28.08 |
| 808.1 | 31.02 | 32.18 | 33.30 | 30.92 | 28.66 | 27.21 |
| 907.9 | 30.56 | 31.95 | 33.34 | 29.93 | 27.65 | 26.25 |
| 1007.7 | 30.33 | 32.04 | 33.67 | 28.93 | 26.76 | 25.41 |
| 1107.4 | 30.22 | 32.18 | 34.11 | 27.91 | 25.89 | 24.59 |
| 1207.2 | 30.35 | 32.63 | 34.89 | 27.14 | 25.22 | 23.94 |
| 1306.9 | 30.60 | 33.24 | 35.98 | 26.69 | 24.84 | 23.57 |
| 1406.7 | 30.91 | 34.00 | 37.46 | 26.16 | 24.39 | 23.11 |
| 1506.4 | 31.32 | 34.99 | 39.73 | 25.85 | 24.14 | 22.89 |
| 1606.2 | 31.90 | 36.20 | 42.82 | 25.70 | 24.05 | 22.82 |
| 1706.0 | 32.54 | 37.63 | 47.23 | 25.45 | 23.86 | 22.68 |
| 1905.5 | 33.35 | 39.57 | 54.34 | 25.57 | 24.23 | 23.08 |
| 2025.2 | 33.54 | 40.35 | 48.15 | 25.28 | 24.27 | 23.28 |
| 2124.9 | 33.40 | 39.74 | 44.44 | 24.78 | 24.13 | 23.35 |
| 2244.6 | 33.26 | 39.14 | 42.21 | 24.28 | 24.04 | 23.58 |
| 2344.4 | 32.95 | 38.57 | 41.67 | 23.97 | 24.10 | 23.93 |
| 2464.1 | 32.87 | 38.35 | 41.20 | 23.63 | 24.08 | 24.27 |
| 2563.9 | 32.15 | 37.30 | 42.10 | 23.21 | 23.80 | 24.26 |
| 2683.6 | 31.60 | 36.41 | 42.07 | 23.25 | 23.96 | 24.61 |
| 2783.3 | 31.17 | 35.93 | 42.52 | 23.41 | 24.21 | 24.96 |
| 2903.0 | 30.75 | 35.31 | 42.54 | 23.74 | 24.63 | 25.52 |
| 3002.8 | 30.29 | 34.51 | 41.36 | 24.04 | 24.99 | 25.95 |
| 3122.5 | 29.83 | 33.63 | 39.13 | 24.45 | 25.43 | 26.39 |
| 3222.2 | 29.42 | 32.96 | 37.56 | 24.80 | 25.93 | 26.92 |
| 3342.0 | 28.82 | 31.83 | 35.09 | 25.15 | 26.41 | 27.56 |
| 3441.7 | 28.51 | 31.13 | 33.64 | 25.42 | 26.71 | 27.88 |
| 3561.4 | 28.34 | 30.69 | 32.58 | 25.80 | 27.12 | 28.18 |
| 3661.2 | 28.34 | 30.47 | 32.02 | 26.09 | 27.39 | 28.35 |
| 3780.9 | 28.56 | 30.42 | 31.60 | 26.55 | 27.77 | 28.57 |
| 3880.6 | 28.90 | 30.45 | 31.23 | 27.02 | 28.23 | 28.96 |
| 4000.3 | 29.89 | 31.04 | 31.28 | 27.72 | 28.91 | 29.59 |
| 4100.1 | 30.08 | 31.27 | 31.26 | 28.48 | 29.60 | 30.23 |

| RF (IN) (MHz) | LO (MHz) | RF-IF ISOLATION (dB) | | |
|---------------------|-------------|-------------------------|-------|-------|
| | | @LO (dBm) | | |
| | | +10 | +13 | +16 |
| 10.1 | 40.1 | 22.33 | 22.23 | 22.29 |
| 109.9 | 139.9 | 22.53 | 22.54 | 22.60 |
| 209.6 | 239.6 | 22.74 | 22.75 | 22.88 |
| 309.4 | 339.4 | 23.28 | 23.43 | 23.79 |
| 409.1 | 439.1 | 24.23 | 24.52 | 25.01 |
| 508.9 | 538.9 | 25.49 | 25.92 | 26.50 |
| 608.6 | 638.6 | 26.92 | 27.40 | 27.91 |
| 708.4 | 738.4 | 28.41 | 28.58 | 28.96 |
| 808.1 | 838.1 | 29.62 | 29.48 | 29.37 |
| 907.9 | 937.9 | 30.29 | 29.73 | 29.38 |
| 1007.7 | 1037.7 | 30.94 | 30.10 | 29.27 |
| 1107.4 | 1137.4 | 31.23 | 30.15 | 29.02 |
| 1207.2 | 1237.2 | 30.90 | 29.86 | 28.55 |
| 1306.9 | 1336.9 | 30.77 | 29.78 | 28.53 |
| 1406.7 | 1436.7 | 30.54 | 29.56 | 28.38 |
| 1506.4 | 1536.4 | 29.73 | 29.01 | 28.04 |
| 1606.2 | 1636.2 | 28.96 | 28.29 | 27.49 |
| 1706.0 | 1736.0 | 28.27 | 27.70 | 26.86 |
| 1805.7 | 1835.7 | 27.82 | 27.44 | 26.79 |
| 1905.5 | 1935.5 | 27.64 | 27.49 | 27.06 |
| 2025.2 | 2055.2 | 27.25 | 27.42 | 27.26 |
| 2124.9 | 2154.9 | 26.89 | 27.20 | 27.28 |
| 2244.6 | 2274.6 | 26.54 | 26.91 | 27.06 |
| 2344.4 | 2374.4 | 26.73 | 27.19 | 27.48 |
| 2464.1 | 2494.1 | 27.01 | 27.68 | 28.13 |
| 2563.9 | 2593.9 | 27.29 | 28.22 | 28.85 |
| 2683.6 | 2713.6 | 27.70 | 28.81 | 29.62 |
| 2783.3 | 2813.3 | 28.14 | 29.35 | 30.18 |
| 2903.0 | 2933.0 | 28.71 | 29.82 | 30.63 |
| 3002.8 | 3032.8 | 29.14 | 29.92 | 30.46 |
| 3122.5 | 3152.5 | 29.19 | 29.81 | 30.03 |
| 3222.2 | 3252.2 | 28.83 | 29.05 | 29.12 |
| 3342.0 | 3372.0 | 28.16 | 27.84 | 27.57 |
| 3441.7 | 3471.7 | 27.59 | 26.97 | 26.45 |
| 3561.4 | 3591.4 | 26.95 | 26.20 | 25.56 |
| 3661.2 | 3691.2 | 26.45 | 25.73 | 25.18 |
| 3780.9 | 3810.9 | 25.59 | 25.00 | 24.67 |
| 3880.6 | 3910.6 | 24.54 | 24.07 | 23.84 |
| 4000.3 | 4030.3 | 23.47 | 23.11 | 22.92 |
| 4100.1 | 4130.1 | 22.89 | 22.64 | 22.50 |

Frequency Mixer

ADE-25MH

Typical Performance Data

| RF (IN) (MHz) | LO (MHz) | RF VSWR (:1) | | | LO (MHz) | LO VSWR (:1) | | | IF (OUT) (MHz) | IF VSWR @LO=2500.1MHz (:1) | | |
|---------------|----------|--------------|------|------|----------|--------------|------|------|----------------|----------------------------|------|------|
| | | @LO (dBm) | | | | @LO (dBm) | | | | @LO (dBm) | | |
| | | +10 | +13 | +16 | | +10 | +13 | +16 | | +10 | +13 | +16 |
| 5.0 | 35.0 | 1.28 | 1.35 | 1.42 | 5.0 | 1.63 | 2.37 | 3.26 | 5.0 | 1.33 | 1.50 | 1.61 |
| 10.1 | 40.1 | 1.11 | 1.18 | 1.25 | 10.1 | 1.58 | 2.23 | 2.95 | 10.1 | 1.23 | 1.68 | 1.71 |
| 109.9 | 139.9 | 1.05 | 1.14 | 1.21 | 109.9 | 1.56 | 2.15 | 2.89 | 50.4 | 1.25 | 1.49 | 1.65 |
| 209.6 | 239.6 | 1.03 | 1.11 | 1.16 | 209.6 | 1.56 | 2.13 | 2.85 | 90.6 | 1.27 | 1.49 | 1.67 |
| 309.4 | 339.4 | 1.05 | 1.05 | 1.10 | 309.4 | 1.58 | 2.15 | 2.85 | 130.9 | 1.27 | 1.51 | 1.67 |
| 409.1 | 439.1 | 1.10 | 1.06 | 1.08 | 409.1 | 1.59 | 2.13 | 2.80 | 171.2 | 1.30 | 1.53 | 1.70 |
| 508.9 | 538.9 | 1.17 | 1.12 | 1.11 | 508.9 | 1.57 | 2.08 | 2.72 | 211.5 | 1.29 | 1.52 | 1.69 |
| 608.6 | 638.6 | 1.26 | 1.21 | 1.19 | 608.6 | 1.57 | 2.06 | 2.66 | 251.7 | 1.31 | 1.52 | 1.68 |
| 708.4 | 738.4 | 1.37 | 1.31 | 1.27 | 708.4 | 1.57 | 2.01 | 2.57 | 292.0 | 1.31 | 1.52 | 1.68 |
| 808.1 | 838.1 | 1.49 | 1.42 | 1.38 | 808.1 | 1.54 | 1.95 | 2.48 | 332.3 | 1.30 | 1.51 | 1.66 |
| 907.9 | 937.9 | 1.61 | 1.54 | 1.49 | 907.9 | 1.51 | 1.90 | 2.40 | 372.5 | 1.32 | 1.53 | 1.68 |
| 1007.7 | 1037.7 | 1.75 | 1.68 | 1.63 | 1007.7 | 1.49 | 1.85 | 2.33 | 412.8 | 1.30 | 1.50 | 1.65 |
| 1107.4 | 1137.4 | 1.87 | 1.79 | 1.73 | 1107.4 | 1.51 | 1.82 | 2.26 | 453.1 | 1.33 | 1.53 | 1.68 |
| 1207.2 | 1237.2 | 2.00 | 1.91 | 1.84 | 1207.2 | 1.55 | 1.78 | 2.17 | 493.3 | 1.33 | 1.53 | 1.69 |
| 1306.9 | 1336.9 | 2.15 | 2.05 | 1.98 | 1306.9 | 1.59 | 1.75 | 2.08 | 533.6 | 1.35 | 1.54 | 1.69 |
| 1406.7 | 1436.7 | 2.30 | 2.20 | 2.13 | 1406.7 | 1.62 | 1.70 | 2.00 | 573.9 | 1.36 | 1.56 | 1.71 |
| 1506.4 | 1536.4 | 2.38 | 2.30 | 2.22 | 1506.4 | 1.65 | 1.66 | 1.92 | 614.2 | 1.35 | 1.54 | 1.68 |
| 1606.2 | 1636.2 | 2.42 | 2.34 | 2.27 | 1606.2 | 1.67 | 1.62 | 1.83 | 654.4 | 1.36 | 1.55 | 1.69 |
| 1706.0 | 1736.0 | 2.47 | 2.37 | 2.31 | 1706.0 | 1.68 | 1.57 | 1.75 | 694.7 | 1.34 | 1.52 | 1.65 |
| 1805.7 | 1835.7 | 2.49 | 2.39 | 2.32 | 1805.7 | 1.69 | 1.52 | 1.66 | 735.0 | 1.33 | 1.50 | 1.63 |
| 1905.5 | 1935.5 | 2.49 | 2.39 | 2.31 | 1905.5 | 1.69 | 1.47 | 1.57 | 775.2 | 1.33 | 1.50 | 1.63 |
| 2025.2 | 2055.2 | 2.48 | 2.37 | 2.29 | 2025.2 | 1.69 | 1.40 | 1.46 | 815.5 | 1.33 | 1.49 | 1.61 |
| 2124.9 | 2154.9 | 2.44 | 2.33 | 2.25 | 2124.9 | 1.67 | 1.34 | 1.36 | 855.8 | 1.34 | 1.50 | 1.63 |
| 2244.6 | 2274.6 | 2.37 | 2.26 | 2.17 | 2244.6 | 1.65 | 1.26 | 1.25 | 896.0 | 1.32 | 1.47 | 1.59 |
| 2344.4 | 2374.4 | 2.32 | 2.20 | 2.12 | 2344.4 | 1.65 | 1.21 | 1.17 | 936.3 | 1.33 | 1.48 | 1.59 |
| 2464.1 | 2494.1 | 2.28 | 2.15 | 2.06 | 2464.1 | 1.62 | 1.17 | 1.12 | 976.6 | 1.32 | 1.47 | 1.59 |
| 2563.9 | 2593.9 | 2.24 | 2.11 | 2.01 | 2563.9 | 1.67 | 1.22 | 1.14 | 1016.9 | 1.32 | 1.45 | 1.56 |
| 2683.6 | 2713.6 | 2.18 | 2.05 | 1.96 | 2683.6 | 1.67 | 1.27 | 1.25 | 1057.1 | 1.32 | 1.46 | 1.56 |
| 2783.3 | 2813.3 | 2.17 | 2.04 | 1.94 | 2783.3 | 1.68 | 1.34 | 1.35 | 1097.4 | 1.29 | 1.41 | 1.51 |
| 2903.0 | 2933.0 | 2.17 | 2.02 | 1.92 | 2903.0 | 1.71 | 1.45 | 1.51 | 1137.7 | 1.29 | 1.40 | 1.50 |
| 3002.8 | 3032.8 | 2.14 | 1.99 | 1.88 | 3002.8 | 1.73 | 1.56 | 1.66 | 1177.9 | 1.28 | 1.38 | 1.48 |
| 3122.5 | 3152.5 | 2.09 | 1.95 | 1.84 | 3122.5 | 1.78 | 1.68 | 1.81 | 1218.2 | 1.27 | 1.37 | 1.46 |
| 3222.2 | 3252.2 | 2.06 | 1.92 | 1.82 | 3222.2 | 1.80 | 1.78 | 1.96 | 1258.5 | 1.26 | 1.37 | 1.46 |
| 3342.0 | 3372.0 | 2.03 | 1.89 | 1.78 | 3342.0 | 1.86 | 1.93 | 2.14 | 1298.7 | 1.23 | 1.32 | 1.40 |
| 3441.7 | 3471.7 | 1.99 | 1.86 | 1.75 | 3441.7 | 1.92 | 2.05 | 2.29 | 1318.9 | 1.24 | 1.32 | 1.40 |
| 3561.4 | 3591.4 | 1.93 | 1.82 | 1.73 | 3561.4 | 2.02 | 2.23 | 2.51 | 1359.2 | 1.23 | 1.30 | 1.38 |
| 3661.2 | 3691.2 | 1.89 | 1.79 | 1.71 | 3661.2 | 2.10 | 2.37 | 2.66 | 1379.3 | 1.22 | 1.29 | 1.37 |
| 3780.9 | 3810.9 | 1.81 | 1.73 | 1.67 | 3780.9 | 2.25 | 2.57 | 2.89 | 1419.6 | 1.21 | 1.27 | 1.34 |
| 3880.6 | 3910.6 | 1.73 | 1.68 | 1.64 | 3880.6 | 2.37 | 2.73 | 3.05 | 1439.7 | 1.19 | 1.25 | 1.32 |
| 4000.3 | 4030.3 | 1.64 | 1.63 | 1.62 | 4000.3 | 2.53 | 2.92 | 3.24 | 1480.0 | 1.18 | 1.22 | 1.28 |
| 4100.1 | 4130.1 | 1.59 | 1.60 | 1.61 | 4100.1 | 2.61 | 3.03 | 3.36 | 1500.1 | 1.17 | 1.20 | 1.26 |

Harmonics Tables

RF HARMONICS ORDER

| | (-dBm) | (-dBc) | | | | | | | | | | |
|----|--------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0 | - | - | +2 | 12 | 19 | 21 | 21 | 28 | 18 | 40 | 35 | 47 |
| 1 | - | 24 | +0 | 32 | 13 | 38 | 20 | 42 | 30 | 39 | 38 | 39 |
| 2 | 86 | 52 | 55 | 50 | 57 | 49 | 54 | 61 | 61 | 57 | 48 | 58 |
| 3 | >100 | 72 | 55 | 70 | 58 | 71 | 58 | 74 | 63 | 72 | 64 | 77 |
| 4 | >100 | >86 | >86 | 86 | >86 | 82 | >86 | 80 | >86 | >86 | >86 | 85 |
| 5 | >100 | >86 | >86 | >86 | >86 | >86 | >86 | >86 | >86 | >86 | >86 | >86 |
| 6 | >100 | >86 | >86 | >86 | >86 | >86 | >86 | >86 | >86 | >86 | >86 | >86 |
| 7 | >100 | >86 | >86 | >86 | >86 | >86 | >86 | >86 | >86 | >86 | >86 | >86 |
| 8 | >100 | >86 | >86 | >86 | >86 | >86 | >86 | >86 | >86 | >86 | >86 | >86 |
| 9 | >100 | >86 | >86 | >86 | >86 | >86 | >86 | >86 | >86 | >86 | >86 | >86 |
| 10 | >100 | >86 | >86 | >86 | >86 | >86 | >86 | >86 | >86 | >86 | >86 | >86 |
| | RF CAL | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

LO HARMONICS ORDER

Test conditions: RF IN: 1250.1 MHz; -6.00 dBm.
 LO IN: 1280.01 MHz; +13.00 dBm
 IF OUT: 29.91 MHz; -13.56 dBm

RF HARMONICS ORDER

| | (-dBm) | (-dBc) | | | | | | | | | | |
|----|--------|--------|-----|-----|----|----|----|----|-----|-----|----|----|
| 0 | - | - | 7 | 22 | 31 | 34 | 33 | 45 | 32 | 61 | 54 | 67 |
| 1 | - | 23 | +0 | 31 | 14 | 39 | 21 | 45 | 32 | 45 | 43 | 49 |
| 2 | 70 | 45 | 46 | 54 | 44 | 45 | 43 | 51 | 51 | 64 | 42 | 55 |
| 3 | >100 | 49 | 36 | 50 | 41 | 59 | 40 | 56 | 51 | 58 | 70 | 55 |
| 4 | >100 | 49 | 66 | 52 | 60 | 53 | 63 | 53 | 63 | 60 | 65 | 65 |
| 5 | >100 | 54 | 49 | 62 | 54 | 68 | 51 | 59 | 53 | 64 | 59 | 59 |
| 6 | 87 | 64 | 66 | 65 | 70 | 83 | 77 | 76 | 81 | 68 | 72 | 67 |
| 7 | >100 | 79 | 68 | 68 | 70 | 73 | 71 | 69 | 73 | 76 | 66 | 73 |
| 8 | >100 | 95 | 80 | 77 | 80 | 74 | 86 | 79 | >96 | 72 | 89 | 72 |
| 9 | >100 | 88 | >96 | 83 | 80 | 86 | 82 | 84 | 85 | 79 | 76 | 76 |
| 10 | >100 | 96 | 92 | >96 | 89 | 92 | 95 | 90 | 90 | >96 | 89 | 83 |
| | RF CAL | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

LO HARMONICS ORDER

Test conditions: RF IN: 1250.1 MHz; 4.00 dBm.
 LO IN: 1280.01 MHz; +13.00 dBm
 IF OUT: 29.91 MHz; -3.8 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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 100817
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