

Frequency Mixer

MAC-85L+

Typical Performance Data

| RF (IN) (MHz) | LO (MHz) | CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB) | | |
|---------------|----------|--|------|------|
| | | @LO (dBm) | | |
| | | +1 | +4 | +7 |
| 2800.1 | 2830.1 | 7.70 | 7.02 | 6.80 |
| 2900.1 | 2930.1 | 7.29 | 6.78 | 6.66 |
| 3000.1 | 3030.1 | 6.90 | 6.37 | 6.23 |
| 3200.1 | 3230.1 | 6.62 | 6.12 | 5.88 |
| 3400.1 | 3430.1 | 6.33 | 5.91 | 5.74 |
| 3600.1 | 3630.1 | 6.02 | 5.47 | 5.23 |
| 3800.1 | 3830.1 | 6.08 | 5.69 | 5.46 |
| 4000.1 | 4030.1 | 7.56 | 7.16 | 6.92 |
| 4200.1 | 4230.1 | 7.71 | 6.96 | 6.60 |
| 4400.1 | 4430.1 | 7.41 | 6.81 | 6.45 |
| 4600.1 | 4630.1 | 8.96 | 7.84 | 7.18 |
| 4800.1 | 4830.1 | 8.27 | 7.25 | 6.72 |
| 5000.1 | 5030.1 | 7.51 | 6.70 | 6.27 |
| 5200.1 | 5230.1 | 7.01 | 6.30 | 5.94 |
| 5400.1 | 5430.1 | 6.61 | 5.82 | 5.58 |
| 5600.1 | 5630.1 | 6.57 | 5.74 | 5.47 |
| 5800.1 | 5830.1 | 8.78 | 7.51 | 6.94 |
| 6000.1 | 6030.1 | 7.99 | 6.82 | 6.37 |
| 6200.1 | 6230.1 | 7.86 | 6.67 | 6.14 |
| 6400.1 | 6430.1 | 7.69 | 6.25 | 5.86 |
| 6600.1 | 6630.1 | 7.77 | 6.22 | 5.81 |
| 6700.1 | 6730.1 | 7.63 | 6.24 | 5.81 |
| 6800.1 | 6830.1 | 7.44 | 6.14 | 5.71 |
| 6900.1 | 6930.1 | 7.24 | 6.11 | 5.66 |
| 7000.1 | 7030.1 | 6.95 | 5.97 | 5.64 |
| 7100.1 | 7130.1 | 6.65 | 5.78 | 5.53 |
| 7200.1 | 7230.1 | 6.61 | 5.65 | 5.32 |
| 7300.1 | 7330.1 | 6.53 | 5.64 | 5.33 |
| 7400.1 | 7430.1 | 6.55 | 5.54 | 5.29 |
| 7500.1 | 7530.1 | 6.69 | 5.67 | 5.31 |
| 7600.1 | 7630.1 | 7.05 | 5.88 | 5.51 |
| 7700.1 | 7730.1 | 7.71 | 6.02 | 5.49 |
| 7800.1 | 7830.1 | 8.00 | 6.17 | 5.65 |
| 7900.1 | 7930.1 | 8.56 | 6.65 | 5.82 |
| 8000.1 | 8030.1 | 9.22 | 6.79 | 5.90 |
| 8100.1 | 8130.1 | 9.36 | 6.75 | 5.89 |
| 8200.1 | 8230.1 | 9.19 | 6.67 | 5.76 |
| 8300.1 | 8330.1 | 9.39 | 6.55 | 5.82 |
| 8400.1 | 8430.1 | 9.74 | 6.86 | 6.18 |
| 8500.1 | 8530.1 | 10.57 | 7.67 | 6.70 |

| RF (IN) (MHz) | LO (MHz) | IP-3 INPUT (dBm) | | |
|---------------|----------|------------------|-------|-------|
| | | @LO (dBm) | | |
| | | +1 | +4 | +7 |
| 2800.1 | 2830.1 | 10.38 | 9.17 | 10.01 |
| 2900.1 | 2930.1 | 9.92 | 10.50 | 10.99 |
| 3000.1 | 3030.1 | 8.15 | 9.49 | 10.60 |
| 3200.1 | 3230.1 | 9.95 | 11.09 | 12.04 |
| 3400.1 | 3430.1 | 9.50 | 11.77 | 12.90 |
| 3600.1 | 3630.1 | 8.84 | 11.71 | 14.33 |
| 3800.1 | 3830.1 | 11.07 | 14.43 | 16.74 |
| 4000.1 | 4030.1 | 8.60 | 10.30 | 11.33 |
| 4200.1 | 4230.1 | 10.72 | 12.40 | 14.17 |
| 4400.1 | 4430.1 | 11.00 | 12.42 | 13.35 |
| 4600.1 | 4630.1 | 13.18 | 13.27 | 14.70 |
| 4800.1 | 4830.1 | 7.51 | 8.94 | 9.89 |
| 5000.1 | 5030.1 | 6.27 | 7.65 | 8.58 |
| 5200.1 | 5230.1 | 6.87 | 8.06 | 9.02 |
| 5400.1 | 5430.1 | 6.11 | 7.24 | 8.24 |
| 5600.1 | 5630.1 | 7.95 | 9.89 | 12.81 |
| 5800.1 | 5830.1 | 8.62 | 12.18 | 13.38 |
| 6000.1 | 6030.1 | 6.10 | 7.88 | 10.02 |
| 6200.1 | 6230.1 | 6.21 | 7.38 | 9.25 |
| 6400.1 | 6430.1 | 5.64 | 7.55 | 9.41 |
| 6600.1 | 6630.1 | 7.03 | 7.56 | 9.38 |
| 6700.1 | 6730.1 | 6.69 | 7.27 | 8.84 |
| 6800.1 | 6830.1 | 6.32 | 7.19 | 8.33 |
| 6900.1 | 6930.1 | 6.35 | 7.05 | 8.12 |
| 7000.1 | 7030.1 | 5.97 | 6.98 | 7.92 |
| 7100.1 | 7130.1 | 6.47 | 7.30 | 8.32 |
| 7200.1 | 7230.1 | 6.71 | 7.39 | 8.49 |
| 7300.1 | 7330.1 | 6.76 | 7.30 | 8.52 |
| 7400.1 | 7430.1 | 7.36 | 7.84 | 8.82 |
| 7500.1 | 7530.1 | 7.83 | 8.08 | 8.65 |
| 7600.1 | 7630.1 | 8.02 | 8.06 | 8.45 |
| 7700.1 | 7730.1 | 4.92 | 6.84 | 7.78 |
| 7800.1 | 7830.1 | 3.90 | 6.08 | 7.56 |
| 7900.1 | 7930.1 | 2.19 | 4.48 | 6.55 |
| 8000.1 | 8030.1 | 0.50 | 5.78 | 7.55 |
| 8100.1 | 8130.1 | 10.02 | 11.32 | 9.01 |
| 8200.1 | 8230.1 | 3.59 | 9.10 | 10.23 |
| 8300.1 | 8330.1 | 4.69 | 9.24 | 13.40 |
| 8400.1 | 8430.1 | 4.20 | 8.31 | 10.20 |
| 8500.1 | 8530.1 | 3.31 | 12.35 | 16.42 |

| RF (IN) (MHz) | LO (MHz) | COMPRESSION @RF IN=+0dBm (dB) | | |
|---------------|----------|-------------------------------|------|------|
| | | @LO (dBm) | | |
| | | +1 | +4 | +7 |
| 2800.1 | 2830.1 | 1.24 | 1.10 | 0.95 |
| 2900.1 | 2930.1 | 1.29 | 1.00 | 0.75 |
| 3000.1 | 3030.1 | 1.40 | 1.04 | 0.77 |
| 3200.1 | 3230.1 | 1.21 | 0.87 | 0.65 |
| 3400.1 | 3430.1 | 1.23 | 0.79 | 0.57 |
| 3600.1 | 3630.1 | 1.14 | 0.64 | 0.37 |
| 3800.1 | 3830.1 | 0.94 | 0.36 | 0.19 |
| 4000.1 | 4030.1 | 0.98 | 0.61 | 0.42 |
| 4200.1 | 4230.1 | 1.15 | 0.72 | 0.55 |
| 4400.1 | 4430.1 | 0.98 | 0.58 | 0.47 |
| 4600.1 | 4630.1 | 0.56 | 0.40 | 0.32 |
| 4800.1 | 4830.1 | 0.45 | 0.53 | 0.48 |
| 5000.1 | 5030.1 | 0.74 | 0.55 | 0.50 |
| 5200.1 | 5230.1 | 0.87 | 0.54 | 0.55 |
| 5400.1 | 5430.1 | 0.83 | 0.45 | 0.24 |
| 5600.1 | 5630.1 | 0.82 | 0.50 | 0.30 |
| 5800.1 | 5830.1 | 0.16 | 0.26 | 0.22 |
| 6000.1 | 6030.1 | 0.51 | 0.56 | 0.49 |
| 6200.1 | 6230.1 | 0.55 | 0.47 | 0.45 |
| 6400.1 | 6430.1 | 0.64 | 0.68 | 0.55 |
| 6600.1 | 6630.1 | 0.47 | 0.50 | 0.36 |
| 6700.1 | 6730.1 | 0.56 | 0.51 | 0.34 |
| 6800.1 | 6830.1 | 0.63 | 0.48 | 0.40 |
| 6900.1 | 6930.1 | 0.70 | 0.51 | 0.43 |
| 7000.1 | 7030.1 | 0.82 | 0.59 | 0.45 |
| 7100.1 | 7130.1 | 0.99 | 0.65 | 0.53 |
| 7200.1 | 7230.1 | 0.96 | 0.62 | 0.60 |
| 7300.1 | 7330.1 | 0.97 | 0.61 | 0.55 |
| 7400.1 | 7430.1 | 1.00 | 0.80 | 0.63 |
| 7500.1 | 7530.1 | 1.04 | 0.78 | 0.66 |
| 7600.1 | 7630.1 | 0.91 | 0.81 | 0.70 |
| 7700.1 | 7730.1 | 0.66 | 0.81 | 0.74 |
| 7800.1 | 7830.1 | 0.88 | 0.93 | 0.81 |
| 7900.1 | 7930.1 | 0.74 | 0.82 | 0.80 |
| 8000.1 | 8030.1 | 0.23 | 0.60 | 0.60 |
| 8100.1 | 8130.1 | 0.06 | 0.53 | 0.46 |
| 8200.1 | 8230.1 | 0.02 | 0.41 | 0.38 |
| 8300.1 | 8330.1 | -0.03 | 0.64 | 0.46 |
| 8400.1 | 8430.1 | -0.10 | 0.72 | 0.53 |
| 8500.1 | 8530.1 | -0.37 | 0.35 | 0.47 |

Typical Performance Data

| IF (OUT) (MHz) | LO (MHz) | CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=5650.1MHz (dB) | IF (OUT) (MHz) | LO (MHz) | CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2800.1MHz (dB) | IF (OUT) (MHz) | LO (MHz) | CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=8500.1MHz (dB) |
|----------------|----------|---|----------------|----------|---|----------------|----------|---|
| | | @LO (dBm) | | | @LO (dBm) | | | @LO (dBm) |
| | | +4 | | | +4 | | | +4 |
| 3650.0 | 2000.1 | 16.68 | 10.0 | 2810.1 | 7.34 | 4700.0 | 3800.1 | 15.80 |
| 3250.0 | 2400.1 | 11.37 | 20.0 | 2820.1 | 7.29 | 4500.0 | 4000.1 | 10.63 |
| 2850.0 | 2800.1 | 8.93 | 30.0 | 2830.1 | 7.15 | 4300.0 | 4200.1 | 8.02 |
| 2450.0 | 3200.1 | 8.25 | 40.0 | 2840.1 | 7.11 | 4100.0 | 4400.1 | 7.10 |
| 2050.0 | 3600.1 | 10.44 | 50.0 | 2850.1 | 7.12 | 3900.0 | 4600.1 | 7.77 |
| 1850.0 | 3800.1 | 10.75 | 60.0 | 2860.1 | 7.18 | 3700.0 | 4800.1 | 8.67 |
| 1650.0 | 4000.1 | 11.17 | 70.0 | 2870.1 | 7.17 | 3500.0 | 5000.1 | 8.79 |
| 1450.0 | 4200.1 | 9.52 | 80.0 | 2880.1 | 7.10 | 3300.0 | 5200.1 | 8.76 |
| 1250.0 | 4400.1 | 8.70 | 90.0 | 2890.1 | 7.11 | 3100.0 | 5400.1 | 7.88 |
| 1050.0 | 4600.1 | 7.68 | 100.0 | 2900.1 | 7.12 | 2900.0 | 5600.1 | 7.05 |
| 850.0 | 4800.1 | 7.25 | 200.0 | 3000.1 | 6.92 | 2700.0 | 5800.1 | 7.35 |
| 650.0 | 5000.1 | 5.90 | 300.0 | 3100.1 | 6.79 | 2500.0 | 6000.1 | 7.56 |
| 450.0 | 5200.1 | 5.31 | 400.0 | 3200.1 | 6.77 | 2300.0 | 6200.1 | 8.48 |
| 250.0 | 5400.1 | 5.60 | 500.0 | 3300.1 | 6.71 | 2200.0 | 6300.1 | 9.23 |
| 130.0 | 5520.1 | 5.85 | 600.0 | 3400.1 | 6.92 | 2100.0 | 6400.1 | 9.89 |
| 90.0 | 5560.1 | 5.91 | 700.0 | 3500.1 | 6.95 | 2000.0 | 6500.1 | 10.41 |
| 50.0 | 5600.1 | 5.96 | 800.0 | 3600.1 | 6.68 | 1900.0 | 6600.1 | 10.70 |
| 10.0 | 5640.1 | 6.18 | 900.0 | 3700.1 | 6.69 | 1800.0 | 6700.1 | 10.72 |
| 10.0 | 5660.1 | 6.22 | 1000.0 | 3800.1 | 6.91 | 1700.0 | 6800.1 | 10.95 |
| 50.0 | 5700.1 | 6.05 | 1100.0 | 3900.1 | 7.46 | 1600.0 | 6900.1 | 10.83 |
| 90.0 | 5740.1 | 5.98 | 1200.0 | 4000.1 | 8.18 | 1500.0 | 7000.1 | 10.54 |
| 130.0 | 5780.1 | 6.38 | 1300.0 | 4100.1 | 8.41 | 1400.0 | 7100.1 | 10.06 |
| 170.0 | 5820.1 | 6.90 | 1400.0 | 4200.1 | 8.78 | 1300.0 | 7200.1 | 9.44 |
| 210.0 | 5860.1 | 7.20 | 1500.0 | 4300.1 | 9.17 | 1200.0 | 7300.1 | 8.59 |
| 250.0 | 5900.1 | 7.49 | 1600.0 | 4400.1 | 9.43 | 1100.0 | 7400.1 | 7.96 |
| 290.0 | 5940.1 | 7.57 | 1800.0 | 4600.1 | 10.02 | 1000.0 | 7500.1 | 7.32 |
| 450.0 | 6100.1 | 7.59 | 2000.0 | 4800.1 | 9.66 | 900.0 | 7600.1 | 6.96 |
| 650.0 | 6300.1 | 7.48 | 2200.0 | 5000.1 | 9.87 | 800.0 | 7700.1 | 6.60 |
| 850.0 | 6500.1 | 7.62 | 2400.0 | 5200.1 | 10.97 | 700.0 | 7800.1 | 6.46 |
| 1050.0 | 6700.1 | 8.78 | 2600.0 | 5400.1 | 11.50 | 600.0 | 7900.1 | 6.49 |
| 1350.0 | 7000.1 | 10.28 | 2800.0 | 5600.1 | 11.18 | 500.0 | 8000.1 | 6.55 |
| 1750.0 | 7400.1 | 11.09 | 3000.0 | 5800.1 | 10.46 | 400.0 | 8100.1 | 6.70 |
| 2150.0 | 7800.1 | 11.29 | 3200.0 | 6000.1 | 10.30 | 300.0 | 8200.1 | 6.64 |
| 2550.0 | 8200.1 | 8.81 | 3400.0 | 6200.1 | 10.87 | 100.0 | 8400.1 | 7.38 |
| 2950.0 | 8600.1 | 8.86 | 3600.0 | 6400.1 | 11.80 | 80.0 | 8420.1 | 7.45 |
| 3350.0 | 9000.1 | 10.15 | 3800.0 | 6600.1 | 10.53 | 60.0 | 8440.1 | 7.61 |
| 3750.0 | 9400.1 | 9.66 | 4000.0 | 6800.1 | 11.08 | 40.0 | 8460.1 | 7.65 |
| 4150.0 | 9800.1 | 8.36 | 4200.0 | 7000.1 | 10.15 | 20.0 | 8480.1 | 7.78 |

Frequency Mixer

MAC-85L+

Typical Performance Data

| LO (MHz) | LO-RF ISOLATION (dB) | | | LO-IF ISOLATION (dB) | | | RF (IN) (MHz) | LO (MHz) | RF-IF ISOLATION (dB) | | |
|-------------|-------------------------|-------|-------|-------------------------|-------|-------|---------------------|-------------|-------------------------|-------|-------|
| | @LO (dBm) | | | @LO (dBm) | | | | | @LO (dBm) | | |
| | +1 | +4 | +7 | +1 | +4 | +7 | | | +1 | +4 | +7 |
| 2830.1 | 49.40 | 46.73 | 48.78 | 9.98 | 10.10 | 9.46 | 2800.1 | 2830.1 | 29.58 | 29.70 | 31.49 |
| 2930.1 | 53.71 | 45.55 | 43.36 | 11.75 | 11.45 | 10.53 | 2900.1 | 2930.1 | 27.87 | 27.88 | 28.96 |
| 3030.1 | 51.81 | 44.51 | 42.49 | 13.49 | 12.50 | 11.35 | 3000.1 | 3030.1 | 26.22 | 25.69 | 27.13 |
| 3230.1 | 45.38 | 51.44 | 48.24 | 15.02 | 13.63 | 12.50 | 3200.1 | 3230.1 | 23.86 | 23.21 | 23.98 |
| 3430.1 | 45.46 | 46.68 | 40.67 | 15.62 | 14.64 | 13.74 | 3400.1 | 3430.1 | 20.16 | 19.38 | 19.67 |
| 3630.1 | 32.77 | 37.84 | 45.40 | 14.91 | 14.68 | 14.30 | 3600.1 | 3630.1 | 18.12 | 17.32 | 17.99 |
| 3830.1 | 36.56 | 37.58 | 37.29 | 13.23 | 14.07 | 14.57 | 3800.1 | 3830.1 | 16.64 | 16.21 | 16.01 |
| 4030.1 | 33.43 | 37.63 | 42.77 | 11.03 | 12.28 | 13.46 | 4000.1 | 4030.1 | 16.98 | 16.98 | 17.85 |
| 4230.1 | 27.08 | 30.82 | 33.88 | 10.26 | 11.83 | 13.57 | 4200.1 | 4230.1 | 11.98 | 11.87 | 12.30 |
| 4430.1 | 26.47 | 29.75 | 32.39 | 11.96 | 13.81 | 15.67 | 4400.1 | 4430.1 | 11.64 | 11.76 | 11.67 |
| 4630.1 | 27.60 | 31.09 | 34.35 | 15.81 | 17.45 | 18.79 | 4600.1 | 4630.1 | 11.64 | 11.91 | 12.35 |
| 4830.1 | 30.46 | 34.04 | 37.89 | 20.10 | 21.06 | 21.62 | 4800.1 | 4830.1 | 13.10 | 13.25 | 12.67 |
| 5030.1 | 30.42 | 32.70 | 35.74 | 24.07 | 23.72 | 23.16 | 5000.1 | 5030.1 | 16.35 | 16.52 | 15.60 |
| 5230.1 | 32.39 | 33.44 | 34.91 | 28.53 | 26.60 | 25.06 | 5200.1 | 5230.1 | 18.83 | 19.13 | 18.04 |
| 5430.1 | 37.36 | 38.38 | 39.15 | 31.27 | 28.52 | 26.69 | 5400.1 | 5430.1 | 21.90 | 22.20 | 21.16 |
| 5630.1 | 42.96 | 46.12 | 45.52 | 32.04 | 29.72 | 28.08 | 5600.1 | 5630.1 | 24.77 | 25.02 | 23.85 |
| 5830.1 | 45.25 | 44.78 | 44.03 | 32.84 | 31.34 | 30.05 | 5800.1 | 5830.1 | 27.81 | 28.04 | 27.41 |
| 6030.1 | 58.26 | 50.44 | 50.13 | 33.48 | 32.98 | 32.24 | 6000.1 | 6030.1 | 32.86 | 33.03 | 31.98 |
| 6230.1 | 46.48 | 51.29 | 50.43 | 34.32 | 34.51 | 34.35 | 6200.1 | 6230.1 | 34.21 | 34.05 | 34.86 |
| 6430.1 | 40.55 | 41.97 | 43.42 | 36.07 | 36.91 | 37.45 | 6400.1 | 6430.1 | 30.19 | 29.97 | 31.42 |
| 6630.1 | 39.28 | 41.12 | 42.50 | 37.91 | 39.20 | 40.65 | 6600.1 | 6630.1 | 28.03 | 28.01 | 28.66 |
| 6730.1 | 37.70 | 39.21 | 40.51 | 39.78 | 40.94 | 42.00 | 6700.1 | 6730.1 | 27.94 | 28.06 | 28.07 |
| 6830.1 | 36.77 | 38.42 | 39.66 | 40.44 | 40.48 | 40.29 | 6800.1 | 6830.1 | 26.42 | 26.63 | 27.04 |
| 6930.1 | 36.56 | 37.71 | 38.37 | 39.76 | 38.14 | 37.17 | 6900.1 | 6930.1 | 25.26 | 25.57 | 25.52 |
| 7030.1 | 36.92 | 38.09 | 38.32 | 35.98 | 34.18 | 33.55 | 7000.1 | 7030.1 | 24.63 | 24.96 | 24.82 |
| 7130.1 | 35.99 | 37.05 | 37.77 | 32.01 | 30.08 | 29.78 | 7100.1 | 7130.1 | 24.04 | 24.27 | 23.96 |
| 7230.1 | 34.44 | 33.91 | 33.96 | 29.02 | 27.21 | 26.95 | 7200.1 | 7230.1 | 23.01 | 23.41 | 23.05 |
| 7330.1 | 37.33 | 36.04 | 34.64 | 27.03 | 25.59 | 25.40 | 7300.1 | 7330.1 | 22.32 | 22.47 | 21.83 |
| 7430.1 | 41.07 | 37.24 | 34.16 | 24.29 | 23.08 | 22.80 | 7400.1 | 7430.1 | 22.99 | 23.20 | 21.53 |
| 7530.1 | 39.88 | 35.50 | 32.24 | 22.08 | 21.05 | 20.85 | 7500.1 | 7530.1 | 22.97 | 23.66 | 23.12 |
| 7630.1 | 44.92 | 40.12 | 36.68 | 20.79 | 20.07 | 20.10 | 7600.1 | 7630.1 | 22.05 | 22.41 | 22.89 |
| 7730.1 | 39.73 | 36.54 | 33.86 | 19.41 | 19.08 | 19.78 | 7700.1 | 7730.1 | 21.14 | 21.17 | 21.35 |
| 7830.1 | 34.65 | 32.98 | 31.34 | 18.69 | 18.69 | 19.70 | 7800.1 | 7830.1 | 19.99 | 20.01 | 18.89 |
| 7930.1 | 31.40 | 30.02 | 29.20 | 16.56 | 16.52 | 18.05 | 7900.1 | 7930.1 | 20.75 | 21.28 | 18.46 |
| 8030.1 | 28.78 | 28.40 | 27.85 | 15.11 | 16.09 | 18.12 | 8000.1 | 8030.1 | 22.31 | 22.83 | 21.24 |
| 8130.1 | 30.68 | 30.26 | 28.82 | 15.79 | 17.65 | 19.57 | 8100.1 | 8130.1 | 23.10 | 23.78 | 22.97 |
| 8230.1 | 36.32 | 33.16 | 30.07 | 18.34 | 19.97 | 21.23 | 8200.1 | 8230.1 | 23.37 | 24.06 | 23.30 |
| 8330.1 | 39.50 | 33.12 | 29.19 | 21.73 | 22.56 | 22.81 | 8300.1 | 8330.1 | 23.94 | 24.62 | 23.84 |
| 8430.1 | 33.22 | 31.68 | 27.52 | 25.21 | 24.87 | 23.89 | 8400.1 | 8430.1 | 23.28 | 23.82 | 23.20 |
| 8530.1 | 27.02 | 29.42 | 27.32 | 28.04 | 26.99 | 24.95 | 8500.1 | 8530.1 | 22.34 | 22.89 | 22.76 |

Typical Performance Data

| RF (IN) (MHz) | LO (MHz) | RF VSWR (:1) | | | LO (MHz) | LO VSWR (:1) | | | IF (OUT) (MHz) | IF VSWR @LO=8500.1MHz (:1) | | |
|------------------|-------------|--------------|------|------|-------------|--------------|------|------|-------------------|----------------------------|------|------|
| | | @LO (dBm) | | | | @LO (dBm) | | | | @LO (dBm) | | |
| | | +1 | +4 | +7 | | +1 | +4 | +7 | | +1 | +4 | +7 |
| 2800.1 | 2830.1 | 3.09 | 2.83 | 3.42 | 2830.1 | 2.84 | 2.46 | 2.66 | 10.1 | 2.71 | 1.30 | 1.11 |
| 2900.1 | 2930.1 | 2.73 | 2.44 | 2.98 | 2930.1 | 2.78 | 2.52 | 2.78 | 20.1 | 2.59 | 1.54 | 1.06 |
| 3000.1 | 3030.1 | 2.42 | 2.18 | 2.59 | 3030.1 | 2.60 | 2.45 | 2.77 | 30.1 | 2.63 | 1.49 | 1.05 |
| 3200.1 | 3230.1 | 2.29 | 2.04 | 2.42 | 3230.1 | 2.21 | 2.35 | 2.81 | 40.1 | 2.97 | 1.43 | 1.08 |
| 3400.1 | 3430.1 | 1.89 | 1.64 | 1.75 | 3430.1 | 1.87 | 2.23 | 2.81 | 50.1 | 2.73 | 1.47 | 1.09 |
| 3600.1 | 3630.1 | 1.96 | 1.72 | 1.76 | 3630.1 | 1.51 | 1.96 | 2.63 | 60.1 | 2.62 | 1.45 | 1.11 |
| 3800.1 | 3830.1 | 2.18 | 2.02 | 1.87 | 3830.1 | 1.23 | 1.81 | 2.52 | 70.1 | 2.73 | 1.46 | 1.09 |
| 4000.1 | 4030.1 | 3.79 | 3.66 | 3.46 | 4030.1 | 1.30 | 1.76 | 2.42 | 80.1 | 2.77 | 1.50 | 1.10 |
| 4200.1 | 4230.1 | 2.96 | 2.83 | 3.42 | 4230.1 | 1.55 | 1.77 | 2.33 | 90.1 | 2.78 | 1.50 | 1.13 |
| 4400.1 | 4430.1 | 2.07 | 1.98 | 2.26 | 4430.1 | 1.77 | 1.85 | 2.27 | 100.1 | 2.74 | 1.53 | 1.14 |
| 4600.1 | 4630.1 | 2.41 | 2.31 | 2.61 | 4630.1 | 2.07 | 1.97 | 2.27 | 110.1 | 2.79 | 1.51 | 1.16 |
| 4800.1 | 4830.1 | 2.26 | 2.17 | 2.64 | 4830.1 | 2.27 | 2.02 | 2.23 | 120.1 | 2.78 | 1.50 | 1.17 |
| 5000.1 | 5030.1 | 2.12 | 2.00 | 2.45 | 5030.1 | 2.40 | 1.92 | 2.06 | 130.1 | 2.73 | 1.51 | 1.18 |
| 5200.1 | 5230.1 | 2.11 | 1.90 | 2.23 | 5230.1 | 2.77 | 2.08 | 2.06 | 140.1 | 2.73 | 1.54 | 1.21 |
| 5400.1 | 5430.1 | 1.93 | 1.70 | 1.91 | 5430.1 | 2.84 | 2.13 | 2.07 | 150.1 | 2.74 | 1.55 | 1.24 |
| 5600.1 | 5630.1 | 1.87 | 1.66 | 1.74 | 5630.1 | 2.75 | 2.00 | 1.94 | 160.1 | 2.76 | 1.53 | 1.23 |
| 5800.1 | 5830.1 | 2.41 | 2.27 | 2.27 | 5830.1 | 2.95 | 2.05 | 1.90 | 170.1 | 2.76 | 1.54 | 1.22 |
| 6000.1 | 6030.1 | 2.13 | 2.01 | 2.53 | 6030.1 | 3.36 | 2.31 | 2.03 | 180.1 | 2.75 | 1.53 | 1.23 |
| 6200.1 | 6230.1 | 2.18 | 2.04 | 2.45 | 6230.1 | 3.85 | 2.56 | 2.14 | 200.1 | 2.80 | 1.56 | 1.26 |
| 6400.1 | 6430.1 | 2.08 | 1.93 | 2.29 | 6430.1 | 4.47 | 2.70 | 2.09 | 250.1 | 2.86 | 1.62 | 1.35 |
| 6600.1 | 6630.1 | 2.09 | 1.91 | 2.17 | 6630.1 | 4.98 | 3.01 | 2.19 | 300.1 | 2.91 | 1.65 | 1.39 |
| 6700.1 | 6730.1 | 1.96 | 1.81 | 2.12 | 6730.1 | 4.82 | 2.93 | 2.13 | 350.1 | 2.97 | 1.70 | 1.45 |
| 6800.1 | 6830.1 | 2.03 | 1.87 | 2.10 | 6830.1 | 4.68 | 2.80 | 2.03 | 400.1 | 3.15 | 1.81 | 1.50 |
| 6900.1 | 6930.1 | 2.06 | 1.91 | 2.05 | 6930.1 | 4.40 | 2.61 | 1.89 | 450.1 | 3.21 | 1.87 | 1.59 |
| 7000.1 | 7030.1 | 1.91 | 1.80 | 1.97 | 7030.1 | 4.12 | 2.43 | 1.73 | 500.1 | 3.45 | 1.96 | 1.62 |
| 7100.1 | 7130.1 | 1.95 | 1.82 | 2.05 | 7130.1 | 3.90 | 2.32 | 1.63 | 550.1 | 3.48 | 2.05 | 1.71 |
| 7200.1 | 7230.1 | 2.14 | 1.95 | 2.08 | 7230.1 | 3.62 | 2.20 | 1.57 | 600.1 | 3.68 | 2.12 | 1.75 |
| 7300.1 | 7330.1 | 2.26 | 2.04 | 2.16 | 7330.1 | 3.41 | 2.13 | 1.55 | 650.1 | 3.71 | 2.20 | 1.83 |
| 7400.1 | 7430.1 | 2.26 | 2.03 | 2.26 | 7430.1 | 3.28 | 2.10 | 1.57 | 700.1 | 3.89 | 2.36 | 1.95 |
| 7500.1 | 7530.1 | 2.37 | 2.12 | 2.40 | 7530.1 | 3.17 | 2.08 | 1.61 | 750.1 | 3.89 | 2.40 | 1.98 |
| 7600.1 | 7630.1 | 2.46 | 2.17 | 2.40 | 7630.1 | 3.20 | 2.12 | 1.67 | 800.1 | 4.09 | 2.58 | 2.11 |
| 7700.1 | 7730.1 | 2.46 | 2.11 | 2.30 | 7730.1 | 3.29 | 2.21 | 1.77 | 850.1 | 4.11 | 2.63 | 2.16 |
| 7800.1 | 7830.1 | 2.43 | 2.06 | 2.26 | 7830.1 | 3.55 | 2.39 | 1.90 | 900.1 | 4.39 | 2.86 | 2.32 |
| 7900.1 | 7930.1 | 2.37 | 2.06 | 2.25 | 7930.1 | 3.73 | 2.58 | 2.04 | 950.1 | 4.40 | 2.86 | 2.32 |
| 8000.1 | 8030.1 | 2.22 | 1.91 | 2.12 | 8030.1 | 4.02 | 2.90 | 2.23 | 1000.1 | 4.64 | 3.10 | 2.52 |
| 8100.1 | 8130.1 | 2.04 | 1.74 | 1.95 | 8130.1 | 4.62 | 3.33 | 2.47 | 1050.1 | 4.74 | 3.12 | 2.53 |
| 8200.1 | 8230.1 | 1.99 | 1.65 | 1.90 | 8230.1 | 5.03 | 3.59 | 2.58 | 1100.1 | 4.79 | 3.28 | 2.69 |
| 8300.1 | 8330.1 | 2.11 | 1.73 | 1.89 | 8330.1 | 5.24 | 3.71 | 2.59 | 1150.1 | 4.78 | 3.23 | 2.63 |
| 8400.1 | 8430.1 | 2.42 | 2.11 | 2.18 | 8430.1 | 5.40 | 3.75 | 2.56 | 1200.1 | 4.70 | 3.28 | 2.71 |
| 8500.1 | 8530.1 | 2.14 | 1.85 | 2.43 | 8530.1 | 5.55 | 3.81 | 2.55 | 1250.1 | 4.53 | 3.15 | 2.61 |

Harmonics Tables

| RF HARMONICS ORDER | (-dBm) | (-dBc) | | | | | | | | | | |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | RF CAL | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 0 | --- | --- | 0.84 | 30.05 | 14.45 | 52.63 | --- | --- | --- | --- | --- | --- |
| 1 | --- | 17.20 | --- | 38.19 | 19.22 | 44.83 | 60.49 | --- | --- | --- | --- | --- |
| 2 | 124.21 | 55.12 | 74.27 | 61.25 | 71.35 | 64.41 | 61.14 | 83.43 | --- | --- | --- | --- |
| 3 | 127.57 | 80.52 | 67.06 | 89.10 | 78.59 | 78.22 | 64.60 | 90.41 | 103.20 | --- | --- | --- |
| 4 | 138.91 | 111.23 | 106.21 | 102.10 | 102.71 | 94.50 | 109.26 | 93.33 | 101.91 | 111.40 | --- | --- |
| 5 | --- | --- | 108.67 | 99.04 | 100.55 | 103.63 | 99.59 | 107.59 | 100.54 | 102.49 | 107.21 | --- |
| 6 | --- | --- | --- | 110.59 | 102.45 | 101.84 | 94.71 | 103.49 | 100.28 | 101.91 | 100.23 | 111.59 |
| 7 | --- | --- | --- | --- | 109.32 | 97.93 | 107.19 | 103.87 | 93.92 | 100.26 | 104.99 | 104.54 |
| 8 | --- | --- | --- | --- | --- | 110.06 | 99.66 | 101.07 | 101.47 | 98.51 | 102.88 | 107.37 |
| 9 | --- | --- | --- | --- | --- | --- | 107.99 | 96.08 | 105.55 | 107.25 | 103.10 | 107.70 |
| 10 | --- | --- | --- | --- | --- | --- | --- | 110.53 | 100.93 | 103.25 | 103.85 | 109.51 |

Test conditions:
 RF IN: 5650 MHz; -15 dBm.
 LO IN: 5680 MHz; +4 dBm
 IF OUT: 30 MHz; -20.68 dBm

| RF HARMONICS ORDER | (-dBm) | (-dBc) | | | | | | | | | | |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | RF CAL | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 0 | --- | --- | 10.86 | 39.87 | 25.24 | 64.76 | --- | --- | --- | --- | --- | --- |
| 1 | --- | 17.27 | --- | 39.69 | 19.53 | 47.20 | 61.91 | --- | --- | --- | --- | --- |
| 2 | 111.41 | 46.68 | 67.62 | 49.81 | 65.29 | 60.29 | 54.23 | 77.03 | --- | --- | --- | --- |
| 3 | 115.55 | 61.03 | 46.78 | 72.02 | 46.62 | 58.49 | 46.45 | 69.32 | 84.99 | --- | --- | --- |
| 4 | 128.43 | 92.17 | 82.54 | 72.71 | 78.87 | 64.64 | 84.63 | 65.72 | 73.92 | 92.52 | --- | --- |
| 5 | --- | --- | 106.48 | 94.35 | 78.84 | 85.85 | 61.63 | 80.82 | 63.11 | 85.57 | 97.16 | --- |
| 6 | --- | --- | --- | 108.42 | 99.18 | 87.95 | 94.89 | 77.16 | 100.66 | 78.88 | 99.02 | 109.24 |
| 7 | --- | --- | --- | --- | 108.33 | 97.59 | 86.08 | 103.42 | 76.88 | 96.15 | 80.52 | 97.43 |
| 8 | --- | --- | --- | --- | --- | 110.78 | 99.79 | 98.70 | 107.88 | 87.68 | 106.09 | 89.73 |
| 9 | --- | --- | --- | --- | --- | --- | 110.31 | 101.26 | 97.55 | 105.85 | 95.14 | 104.10 |
| 10 | --- | --- | --- | --- | --- | --- | --- | 110.80 | 105.13 | 105.03 | 107.09 | 100.56 |

Test conditions:
 RF IN: 5650 MHz; -5 dBm.
 LO IN: 5680 MHz; +4 dBm
 IF OUT: 30 MHz; -10.70 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 represents the Harmonics level of the RF Input Signal to the mixer