# Frequency Mixer MBA-9H

## *Typical Performance Data*

| RF (IN) (MHz) | LO (MHz) | CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB) @LO (dBm) | | | LO (MHz) | LO-RF ISOLATION (dB) @LO (dBm) | | | LO-IF ISOLATION (dB) @LO (dBm) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | +14 | +17 | +20 | | +14 | +17 | +20 | +14 | +17 | +20 |
| 730.0 | 760.0 | 8.31 | 8.11 | 7.91 | 760.0 | 27.2 | 26.70 | 25.80 | 18.20 | 16.70 | 15.90 |
| 800.0 | 830.0 | 8.03 | 7.83 | 7.43 | 830.0 | 27.2 | 26.00 | 24.60 | 17.50 | 16.40 | 15.80 |
| 810.0 | 840.0 | 7.96 | 7.66 | 7.36 | 840.0 | 27.1 | 25.90 | 24.40 | 17.40 | 16.30 | 15.60 |
| 820.0 | 850.0 | 7.94 | 7.54 | 7.24 | 850.0 | 27.1 | 25.80 | 24.10 | 17.20 | 16.20 | 15.40 |
| 830.0 | 860.0 | 7.96 | 7.56 | 7.36 | 860.0 | 27.1 | 25.70 | 24.00 | 17.30 | 16.20 | 15.50 |
| 840.0 | 870.0 | 7.83 | 7.43 | 7.13 | 870.0 | 27.2 | 25.60 | 24.10 | 17.30 | 16.30 | 15.70 |
| 850.0 | 880.0 | 7.90 | 7.40 | 7.20 | 880.0 | 27.3 | 25.60 | 24.10 | 17.40 | 16.50 | 15.90 |
| 860.0 | 890.0 | 7.89 | 7.39 | 7.09 | 890.0 | 27.2 | 25.80 | 24.00 | 17.30 | 16.50 | 16.10 |
| 870.0 | 900.0 | 7.85 | 7.25 | 7.05 | 900.0 | 27.0 | 25.50 | 23.90 | 17.10 | 16.50 | 16.20 |
| 880.0 | 910.0 | 7.81 | 7.31 | 7.01 | 910.0 | 26.8 | 25.10 | 23.70 | 16.90 | 16.40 | 16.10 |
| 890.0 | 920.0 | 7.71 | 7.11 | 6.81 | 920.0 | 26.6 | 24.90 | 23.30 | 16.70 | 16.40 | 16.00 |
| 900.0 | 930.0 | 7.61 | 7.01 | 6.81 | 930.0 | 26.6 | 24.90 | 23.10 | 16.50 | 16.30 | 15.80 |
| 910.0 | 940.0 | 7.47 | 6.87 | 6.67 | 940.0 | 26.8 | 24.80 | 23.00 | 16.40 | 16.20 | 15.90 |
| 920.0 | 950.0 | 7.47 | 6.77 | 6.57 | 950.0 | 27.2 | 24.90 | 23.10 | 16.40 | 16.30 | 16.00 |
| 930.0 | 960.0 | 7.25 | 6.65 | 6.45 | 960.0 | 27.4 | 25.10 | 23.30 | 16.30 | 16.30 | 16.10 |
| 940.0 | 970.0 | 7.24 | 6.54 | 6.34 | 970.0 | 27.3 | 25.20 | 23.50 | 16.10 | 16.30 | 16.40 |
| 950.0 | 980.0 | 7.02 | 6.52 | 6.32 | 980.0 | 27.3 | 25.20 | 23.60 | 15.90 | 16.30 | 16.50 |
| 960.0 | 990.0 | 6.95 | 6.35 | 6.15 | 990.0 | 27.2 | 25.20 | 23.50 | 15.60 | 16.10 | 16.40 |
| 970.0 | 1000.0 | 6.87 | 6.27 | 6.17 | 1000.0 | 27.0 | 24.90 | 23.30 | 15.30 | 16.00 | 16.20 |
| 980.0 | 1010.0 | 6.76 | 6.16 | 6.06 | 1010.0 | 27.1 | 24.90 | 23.20 | 15.10 | 15.80 | 16.10 |
| 990.0 | 1020.0 | 6.79 | 6.19 | 5.99 | 1020.0 | 27.4 | 25.00 | 23.30 | 15.00 | 15.70 | 16.00 |
| 1000.0 | 1030.0 | 6.75 | 6.15 | 5.95 | 1030.0 | 27.5 | 25.10 | 23.50 | 14.80 | 15.60 | 16.20 |
| 1060.0 | 1090.0 | 6.75 | 6.25 | 6.05 | 1090.0 | 27.2 | 25.00 | 23.80 | 13.50 | 15.00 | 16.30 |
| 1170.0 | 1200.0 | 6.12 | 5.72 | 5.62 | 1200.0 | 27.0 | 25.80 | 24.70 | 12.20 | 14.00 | 15.90 |
| 1280.0 | 1310.0 | 5.90 | 5.50 | 5.40 | 1310.0 | 24.3 | 25.30 | 26.10 | 11.60 | 13.50 | 15.50 |
| 1390.0 | 1420.0 | 5.93 | 5.53 | 5.43 | 1420.0 | 24.0 | 25.20 | 26.30 | 11.10 | 12.90 | 14.20 |
| 1500.0 | 1530.0 | 5.81 | 5.51 | 5.51 | 1530.0 | 23.2 | 24.30 | 24.80 | 10.60 | 12.00 | 12.90 |

# Frequency Mixer MBA-9H

## *Typical Performance Data*

| RF (IN) (MHz) | LO (MHz) | RF VSWR (:1) @LO (dBm) | | | LO (MHz) | LO VSWR (:1) @LO (dBm) | | | IF (OUT) (MHz) | IF VSWR (:1) @LO (dBm) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | +14 | +17 | +20 | | +14 | +17 | +20 | | +14 | +17 | +20 |
| 730.0 | 760.0 | 3.01 | 2.88 | 2.80 | 760.0 | 2.49 | 2.46 | 2.88 | 0.1 | 1.09 | 1.31 | 1.43 |
| 800.0 | 830.0 | 3.06 | 2.84 | 2.65 | 830.0 | 1.91 | 2.01 | 2.43 | 0.3 | 1.08 | 1.30 | 1.43 |
| 810.0 | 840.0 | 2.96 | 2.76 | 2.58 | 840.0 | 1.89 | 2.03 | 2.43 | 0.5 | 1.06 | 1.28 | 1.40 |
| 820.0 | 850.0 | 3.11 | 2.84 | 2.65 | 850.0 | 1.88 | 2.03 | 2.52 | 0.8 | 1.04 | 1.26 | 1.38 |
| 830.0 | 860.0 | 3.06 | 2.84 | 2.65 | 860.0 | 1.88 | 2.06 | 2.55 | 1.0 | 1.03 | 1.26 | 1.38 |
| 840.0 | 870.0 | 3.11 | 2.88 | 2.68 | 870.0 | 1.89 | 2.06 | 2.61 | 5.0 | 1.05 | 1.27 | 1.38 |
| 850.0 | 880.0 | 3.16 | 2.92 | 2.72 | 880.0 | 1.87 | 2.04 | 2.58 | 10.0 | 1.05 | 1.28 | 1.39 |
| 860.0 | 890.0 | 3.16 | 2.92 | 2.68 | 890.0 | 1.87 | 2.01 | 2.52 | 20.0 | 1.06 | 1.27 | 1.38 |
| 870.0 | 900.0 | 3.16 | 2.88 | 2.68 | 900.0 | 1.82 | 1.96 | 2.40 | 30.0 | 1.07 | 1.26 | 1.37 |
| 880.0 | 910.0 | 3.16 | 2.84 | 2.61 | 910.0 | 1.78 | 1.91 | 2.32 | 36.8 | 1.08 | 1.26 | 1.38 |
| 890.0 | 920.0 | 3.16 | 2.80 | 2.55 | 920.0 | 1.76 | 1.88 | 2.32 | 50.0 | 1.09 | 1.23 | 1.34 |
| 900.0 | 930.0 | 3.11 | 2.76 | 2.49 | 930.0 | 1.75 | 1.88 | 2.32 | 70.0 | 1.13 | 1.21 | 1.32 |
| 910.0 | 940.0 | 3.06 | 2.72 | 2.40 | 940.0 | 1.76 | 1.89 | 2.40 | 73.4 | 1.14 | 1.21 | 1.30 |
| 920.0 | 950.0 | 3.11 | 2.61 | 2.35 | 950.0 | 1.81 | 1.91 | 2.43 | 100.0 | 1.23 | 1.20 | 1.27 |
| 930.0 | 960.0 | 3.06 | 2.58 | 2.30 | 960.0 | 1.82 | 1.88 | 2.37 | 110.0 | 1.27 | 1.21 | 1.27 |
| 940.0 | 970.0 | 3.06 | 2.58 | 2.25 | 970.0 | 1.85 | 1.88 | 2.37 | 130.0 | 1.35 | 1.23 | 1.26 |
| 950.0 | 980.0 | 2.96 | 2.52 | 2.23 | 980.0 | 1.85 | 1.89 | 2.37 | 140.0 | 1.40 | 1.24 | 1.26 |
| 960.0 | 990.0 | 2.96 | 2.49 | 2.20 | 990.0 | 1.82 | 1.87 | 2.32 | 146.7 | 1.42 | 1.26 | 1.26 |
| 970.0 | 1000.0 | 2.92 | 2.46 | 2.18 | 1000.0 | 1.78 | 1.87 | 2.30 | 150.0 | 1.44 | 1.27 | 1.26 |
| 980.0 | 1010.0 | 2.92 | 2.46 | 2.18 | 1010.0 | 1.71 | 1.81 | 2.27 | 170.0 | 1.55 | 1.35 | 1.30 |
| 990.0 | 1020.0 | 2.92 | 2.49 | 2.23 | 1020.0 | 1.71 | 1.80 | 2.25 | 183.4 | 1.63 | 1.40 | 1.34 |
| 1000.0 | 1030.0 | 2.92 | 2.52 | 2.27 | 1030.0 | 1.75 | 1.80 | 2.27 | 190.0 | 1.67 | 1.43 | 1.36 |
| 1060.0 | 1090.0 | 2.92 | 2.76 | 2.58 | 1090.0 | 1.74 | 1.81 | 2.35 | 200.0 | 1.73 | 1.47 | 1.39 |
| 1170.0 | 1200.0 | 2.20 | 2.14 | 2.08 | 1200.0 | 1.56 | 1.73 | 2.27 | 220.1 | 1.87 | 1.59 | 1.48 |
| 1280.0 | 1310.0 | 1.85 | 1.69 | 1.63 | 1310.0 | 1.43 | 1.70 | 2.30 | 256.7 | 2.14 | 1.82 | 1.68 |
| 1390.0 | 1420.0 | 1.70 | 1.59 | 1.58 | 1420.0 | 1.37 | 1.85 | 2.58 | 293.4 | 2.46 | 2.12 | 1.94 |
| 1500.0 | 1530.0 | 1.85 | 1.91 | 1.97 | 1530.0 | 1.37 | 1.75 | 2.55 | 330.0 | 2.80 | 2.40 | 2.23 |