

Frequency Mixer

UNCL-X1

Typical Performance Data

| RF (MHz) | LO (MHz) | CONVERSION LOSS (dB) | | | LO (MHz) | LO-RF ISOLATION (dB) | | | LO-IF ISOLATION (dB) | | |
|----------|----------|----------------------|-------|-------|----------|----------------------|------|------|----------------------|------|------|
| | | @LO (dBm) | | | | @LO (dBm) | | | @LO (dBm) | | |
| | | +4 | +7 | +10 | | +4 | +7 | +10 | +4 | +7 | +10 |
| 1.0 | 31.0 | -0.09 | -0.39 | -0.54 | 1.0 | 81.1 | 78.8 | 78.7 | 68.5 | 69.4 | 70.1 |
| 2.0 | 32.0 | -0.75 | -1.03 | -1.16 | 2.0 | 76.4 | 75.8 | 74.9 | 67.8 | 67.6 | 67.7 |
| 5.0 | 35.0 | -1.16 | -1.47 | -1.57 | 5.0 | 69.6 | 69.0 | 68.5 | 65.7 | 63.9 | 62.9 |
| 10.0 | 41.0 | -1.28 | -1.56 | -1.64 | 10.0 | 63.9 | 63.4 | 63.1 | 61.2 | 59.1 | 57.7 |
| 20.0 | 50.0 | -1.25 | -1.55 | -1.63 | 20.0 | 58.7 | 58.3 | 58.1 | 56.7 | 54.1 | 52.4 |
| 49.3 | 79.3 | -1.22 | -1.50 | -1.59 | 49.3 | 50.7 | 50.4 | 50.0 | 48.8 | 46.1 | 44.5 |
| 50.0 | 80.0 | -1.22 | -1.51 | -1.58 | 50.0 | 50.6 | 50.3 | 49.9 | 48.7 | 46.0 | 44.4 |
| 97.6 | 67.6 | -1.24 | -1.53 | -1.60 | 97.6 | 44.7 | 44.4 | 44.2 | 43.1 | 41.2 | 39.8 |
| 100.0 | 70.0 | -1.26 | -1.54 | -1.60 | 100.0 | 44.5 | 44.3 | 44.1 | 43.1 | 41.1 | 39.8 |
| 145.9 | 115.9 | -1.34 | -1.59 | -1.63 | 145.9 | 41.7 | 41.4 | 41.1 | 41.2 | 39.2 | 37.7 |
| 194.2 | 164.2 | -1.43 | -1.64 | -1.67 | 194.2 | 39.3 | 38.8 | 38.5 | 39.3 | 37.4 | 35.7 |
| 200.0 | 170.0 | -1.43 | -1.63 | -1.67 | 200.0 | 38.9 | 38.6 | 38.3 | 38.9 | 37.2 | 35.6 |
| 242.5 | 212.5 | -1.47 | -1.66 | -1.69 | 242.5 | 37.5 | 37.2 | 36.9 | 36.5 | 35.5 | 34.3 |
| 250.0 | 220.0 | -1.45 | -1.65 | -1.68 | 250.0 | 37.2 | 37.0 | 36.8 | 36.2 | 35.4 | 34.3 |
| 290.7 | 260.7 | -1.46 | -1.66 | -1.68 | 290.7 | 36.0 | 35.7 | 35.3 | 34.0 | 33.5 | 32.5 |
| 339.0 | 309.0 | -1.42 | -1.62 | -1.66 | 339.0 | 35.1 | 34.8 | 34.6 | 31.5 | 31.7 | 31.5 |
| 387.3 | 357.3 | -1.39 | -1.59 | -1.63 | 387.3 | 34.2 | 33.7 | 33.2 | 29.2 | 29.5 | 29.0 |
| 435.6 | 405.6 | -1.31 | -1.52 | -1.57 | 435.6 | 33.5 | 33.1 | 32.7 | 27.8 | 28.4 | 28.4 |
| 483.9 | 453.9 | -1.18 | -1.42 | -1.48 | 483.9 | 33.0 | 32.5 | 32.1 | 26.1 | 27.3 | 27.5 |
| 500.0 | 470.0 | -1.16 | -1.39 | -1.47 | 500.0 | 33.0 | 32.6 | 32.2 | 26.1 | 27.0 | 27.4 |

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Frequency Mixer

UNCL-X1

Typical Performance Data

| RF/LO (MHz) | RF VSWR (:1) | | | LO VSWR (:1) | | | IF (MHz) | IF VSWR (:1) | | |
|----------------|-----------------|------|------|-----------------|------|------|-------------|-----------------|------|------|
| | @LO (dBm) | | | @LO (dBm) | | | | @LO (dBm) | | |
| | +4 | +7 | +10 | +4 | +7 | +10 | | +4 | +7 | +10 |
| 5.0 | 1.20 | 1.21 | 1.23 | 2.21 | 2.96 | 3.93 | 5.0 | 1.21 | 1.19 | 1.18 |
| 10.0 | 1.11 | 1.12 | 1.14 | 2.09 | 2.86 | 3.84 | 10.0 | 1.19 | 1.16 | 1.15 |
| 20.0 | 1.06 | 1.06 | 1.09 | 1.97 | 2.77 | 3.74 | 20.0 | 1.18 | 1.16 | 1.14 |
| 50.0 | 1.03 | 1.05 | 1.09 | 1.83 | 2.61 | 3.58 | 50.0 | 1.19 | 1.16 | 1.15 |
| 57.5 | 1.03 | 1.05 | 1.09 | 1.86 | 2.65 | 3.62 | 57.5 | 1.19 | 1.16 | 1.15 |
| 95.0 | 1.03 | 1.05 | 1.09 | 1.82 | 2.59 | 3.54 | 95.0 | 1.18 | 1.16 | 1.15 |
| 100.0 | 1.03 | 1.05 | 1.09 | 1.76 | 2.50 | 3.40 | 100.0 | 1.18 | 1.16 | 1.15 |
| 140.0 | 1.02 | 1.05 | 1.09 | 1.76 | 2.49 | 3.40 | 140.0 | 1.18 | 1.16 | 1.15 |
| 185.0 | 1.01 | 1.06 | 1.11 | 1.77 | 2.20 | 3.44 | 185.0 | 1.18 | 1.16 | 1.15 |
| 200.0 | 1.01 | 1.07 | 1.11 | 1.74 | 2.46 | 3.32 | 200.0 | 1.18 | 1.16 | 1.15 |
| 230.0 | 1.03 | 1.08 | 1.13 | 1.74 | 2.46 | 3.33 | 230.0 | 1.18 | 1.16 | 1.15 |
| 245.0 | 1.05 | 1.10 | 1.14 | 1.79 | 2.54 | 3.43 | 245.0 | 1.17 | 1.16 | 1.15 |
| 250.0 | 1.09 | 1.12 | 1.15 | 1.83 | 2.58 | 3.47 | 250.0 | 1.17 | 1.15 | 1.14 |
| 275.0 | 1.07 | 1.11 | 1.16 | 1.82 | 2.54 | 3.40 | 275.0 | 1.18 | 1.16 | 1.16 |
| 320.0 | 1.09 | 1.15 | 1.19 | 1.85 | 2.56 | 3.42 | 320.0 | 1.17 | 1.16 | 1.16 |
| 365.0 | 1.13 | 1.19 | 1.24 | 1.92 | 2.65 | 3.52 | 365.0 | 1.16 | 1.16 | 1.16 |
| 410.0 | 1.18 | 1.24 | 1.28 | 1.95 | 2.66 | 3.52 | 410.0 | 1.15 | 1.15 | 1.15 |
| 455.0 | 1.23 | 1.29 | 1.34 | 2.01 | 2.72 | 3.56 | 455.0 | 1.14 | 1.15 | 1.15 |
| 485.0 | 1.27 | 1.33 | 1.38 | 2.10 | 2.82 | 3.66 | 485.0 | 1.14 | 1.15 | 1.15 |
| 500.0 | 1.30 | 1.36 | 1.41 | 2.11 | 2.82 | 3.67 | 500.0 | 1.13 | 1.15 | 1.16 |

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