

Frequency Mixer

LAVI-362VH+

Typical Performance Data

| RF (IN) (MHz) | LO (MHz) | CONVERSION LOSS IF FIXED @IF(OUT)=540MHz (dB) | | |
|---------------|----------|---|-------|-------|
| | | @LO (dBm) | | |
| | | +21 | +22 | +23 |
| 90.1 | 630.1 | 9.26 | 8.80 | 8.42 |
| 110.1 | 650.1 | 9.14 | 8.67 | 8.32 |
| 210.1 | 750.1 | 8.73 | 8.31 | 8.04 |
| 310.1 | 850.1 | 8.44 | 8.22 | 8.03 |
| 410.1 | 950.1 | 7.92 | 7.76 | 7.64 |
| 510.1 | 1050.1 | 7.48 | 7.36 | 7.26 |
| 610.1 | 1150.1 | 7.25 | 7.16 | 7.13 |
| 710.1 | 1250.1 | 7.02 | 6.92 | 6.83 |
| 810.1 | 1350.1 | 8.20 | 8.15 | 8.08 |
| 910.1 | 1450.1 | 8.31 | 8.27 | 8.23 |
| 1010.1 | 1550.1 | 7.99 | 7.96 | 7.93 |
| 1110.1 | 1650.1 | 7.75 | 7.72 | 7.69 |
| 1210.1 | 1750.1 | 7.52 | 7.49 | 7.45 |
| 1310.1 | 1850.1 | 7.49 | 7.44 | 7.41 |
| 1410.1 | 1950.1 | 7.58 | 7.54 | 7.50 |
| 1510.1 | 2050.1 | 7.63 | 7.60 | 7.55 |
| 1610.1 | 2150.1 | 7.62 | 7.58 | 7.53 |
| 1710.1 | 2250.1 | 7.55 | 7.51 | 7.46 |
| 1810.1 | 2350.1 | 7.51 | 7.45 | 7.40 |
| 1910.1 | 2450.1 | 7.48 | 7.44 | 7.38 |
| 2010.1 | 2550.1 | 7.42 | 7.37 | 7.31 |
| 2110.1 | 2650.1 | 7.41 | 7.35 | 7.28 |
| 2210.1 | 2750.1 | 7.42 | 7.37 | 7.30 |
| 2310.1 | 2850.1 | 7.47 | 7.41 | 7.36 |
| 2410.1 | 2950.1 | 7.55 | 7.50 | 7.45 |
| 2510.1 | 3050.1 | 7.65 | 7.62 | 7.56 |
| 2610.1 | 3150.1 | 7.66 | 7.62 | 7.57 |
| 2710.1 | 3250.1 | 7.68 | 7.65 | 7.62 |
| 2810.1 | 3350.1 | 7.82 | 7.79 | 7.75 |
| 2910.1 | 3450.1 | 8.03 | 8.01 | 7.99 |
| 3010.1 | 3550.1 | 8.30 | 8.30 | 8.28 |
| 3110.1 | 3650.1 | 8.63 | 8.64 | 8.63 |
| 3210.1 | 3750.1 | 8.96 | 8.98 | 8.97 |
| 3310.1 | 3850.1 | 9.25 | 9.26 | 9.24 |
| 3390.1 | 3930.1 | 9.53 | 9.54 | 9.52 |
| 3490.1 | 4030.1 | 9.81 | 9.82 | 9.80 |
| 3570.1 | 4110.1 | 10.10 | 10.11 | 10.09 |
| 3670.1 | 4210.1 | 10.39 | 10.40 | 10.39 |
| 3750.1 | 4290.1 | 10.62 | 10.63 | 10.63 |
| 3850.1 | 4390.1 | 10.90 | 10.91 | 10.91 |

| RF (IN) (MHz) | LO (MHz) | IP3 INPUT (dBm) | | |
|---------------|----------|-----------------|-------|-------|
| | | @LO (dBm) | | |
| | | +21 | +22 | +23 |
| 90.1 | 630.1 | 11.29 | 11.58 | 12.02 |
| 110.1 | 650.1 | 11.35 | 11.76 | 12.16 |
| 210.1 | 750.1 | 11.21 | 11.78 | 12.51 |
| 310.1 | 850.1 | 12.64 | 13.58 | 14.65 |
| 410.1 | 950.1 | 17.50 | 18.49 | 19.35 |
| 510.1 | 1050.1 | 19.25 | 20.12 | 20.91 |
| 610.1 | 1150.1 | 20.83 | 21.76 | 22.71 |
| 710.1 | 1250.1 | 22.34 | 23.24 | 24.17 |
| 810.1 | 1350.1 | 21.30 | 22.13 | 23.54 |
| 910.1 | 1450.1 | 25.59 | 26.65 | 27.55 |
| 1010.1 | 1550.1 | 27.29 | 28.40 | 29.42 |
| 1110.1 | 1650.1 | 28.71 | 29.84 | 31.20 |
| 1210.1 | 1750.1 | 29.67 | 30.54 | 31.69 |
| 1310.1 | 1850.1 | 30.33 | 31.64 | 32.23 |
| 1410.1 | 1950.1 | 32.09 | 33.11 | 33.83 |
| 1510.1 | 2050.1 | 33.46 | 34.00 | 35.60 |
| 1610.1 | 2150.1 | 32.92 | 33.67 | 34.69 |
| 1710.1 | 2250.1 | 32.79 | 33.67 | 34.40 |
| 1810.1 | 2350.1 | 32.97 | 33.74 | 34.70 |
| 1910.1 | 2450.1 | 33.64 | 34.35 | 35.14 |
| 2010.1 | 2550.1 | 33.64 | 34.60 | 35.66 |
| 2110.1 | 2650.1 | 33.68 | 34.98 | 35.97 |
| 2210.1 | 2750.1 | 34.07 | 35.43 | 36.93 |
| 2310.1 | 2850.1 | 34.07 | 35.44 | 36.89 |
| 2410.1 | 2950.1 | 33.63 | 35.38 | 36.57 |
| 2510.1 | 3050.1 | 33.36 | 34.73 | 35.63 |
| 2610.1 | 3150.1 | 32.56 | 33.95 | 35.30 |
| 2710.1 | 3250.1 | 32.26 | 33.54 | 34.13 |
| 2810.1 | 3350.1 | 31.52 | 33.21 | 34.55 |
| 2910.1 | 3450.1 | 30.81 | 32.55 | 33.32 |
| 3010.1 | 3550.1 | 30.24 | 32.00 | 33.56 |
| 3110.1 | 3650.1 | 29.72 | 30.98 | 32.85 |
| 3210.1 | 3750.1 | 28.99 | 30.40 | 31.82 |
| 3310.1 | 3850.1 | 28.21 | 29.25 | 30.39 |
| 3390.1 | 3930.1 | 27.84 | 28.73 | 29.80 |
| 3490.1 | 4030.1 | 27.51 | 28.27 | 29.32 |
| 3570.1 | 4110.1 | 27.54 | 28.34 | 29.14 |
| 3670.1 | 4210.1 | 27.53 | 28.26 | 29.12 |
| 3750.1 | 4290.1 | 27.41 | 28.22 | 28.94 |
| 3850.1 | 4390.1 | 27.75 | 28.58 | 28.72 |

| RF (IN) (MHz) | LO (MHz) | COMPRESSION @RF IN=+20dBm (dB) | | |
|---------------|----------|--------------------------------|-------|-------|
| | | @LO (dBm) | | |
| | | +21 | +22 | +23 |
| 90.1 | 630.1 | 9.16 | 8.95 | 8.81 |
| 110.1 | 650.1 | 9.24 | 9.09 | 8.96 |
| 210.1 | 750.1 | 11.07 | 10.90 | 10.69 |
| 310.1 | 850.1 | 10.08 | 9.66 | 9.15 |
| 410.1 | 950.1 | 6.72 | 6.07 | 5.44 |
| 510.1 | 1050.1 | 5.72 | 5.14 | 4.57 |
| 610.1 | 1150.1 | 4.71 | 4.02 | 3.44 |
| 710.1 | 1250.1 | 4.01 | 3.43 | 2.85 |
| 810.1 | 1350.1 | 2.87 | 2.54 | 2.23 |
| 910.1 | 1450.1 | 2.47 | 2.09 | 1.76 |
| 1010.1 | 1550.1 | 1.70 | 1.33 | 1.03 |
| 1110.1 | 1650.1 | 1.11 | 0.83 | 0.58 |
| 1210.1 | 1750.1 | 0.76 | 0.58 | 0.42 |
| 1310.1 | 1850.1 | 0.57 | 0.41 | 0.32 |
| 1410.1 | 1950.1 | 0.39 | 0.28 | 0.21 |
| 1510.1 | 2050.1 | 0.27 | 0.21 | 0.15 |
| 1610.1 | 2150.1 | 0.25 | 0.19 | 0.14 |
| 1710.1 | 2250.1 | 0.27 | 0.19 | 0.15 |
| 1810.1 | 2350.1 | 0.26 | 0.19 | 0.15 |
| 1910.1 | 2450.1 | 0.29 | 0.22 | 0.17 |
| 2010.1 | 2550.1 | 0.36 | 0.27 | 0.21 |
| 2110.1 | 2650.1 | 0.37 | 0.29 | 0.23 |
| 2210.1 | 2750.1 | 0.41 | 0.31 | 0.23 |
| 2310.1 | 2850.1 | 0.43 | 0.31 | 0.24 |
| 2410.1 | 2950.1 | 0.46 | 0.34 | 0.26 |
| 2510.1 | 3050.1 | 0.47 | 0.36 | 0.27 |
| 2610.1 | 3150.1 | 0.56 | 0.42 | 0.32 |
| 2710.1 | 3250.1 | 0.60 | 0.45 | 0.39 |
| 2810.1 | 3350.1 | 0.56 | 0.44 | 0.34 |
| 2910.1 | 3450.1 | 0.63 | 0.47 | 0.39 |
| 3010.1 | 3550.1 | 0.68 | 0.50 | 0.38 |
| 3110.1 | 3650.1 | 0.65 | 0.49 | 0.36 |
| 3210.1 | 3750.1 | 0.65 | 0.47 | 0.36 |
| 3310.1 | 3850.1 | 0.75 | 0.57 | 0.43 |
| 3390.1 | 3930.1 | 0.93 | 0.71 | 0.54 |
| 3490.1 | 4030.1 | 1.00 | 0.76 | 0.58 |
| 3570.1 | 4110.1 | 1.04 | 0.78 | 0.59 |
| 3670.1 | 4210.1 | 1.12 | 0.85 | 0.61 |
| 3750.1 | 4290.1 | 1.13 | 0.85 | 0.61 |
| 3850.1 | 4390.1 | 1.10 | 0.82 | 0.78 |

Frequency Mixer

LAVI-362VH+

Typical Performance Data

| IF (OUT) (MHz) | LO (MHz) | CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2200.1001MHz (dB) | IF (OUT) (MHz) | LO (MHz) | CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1400.1MHz (dB) | IF (OUT) (MHz) | LO (MHz) | CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=3000.1001MHz (dB) |
|----------------|----------|--|----------------|----------|---|----------------|----------|--|
| | | @LO (dBm) | | | @LO (dBm) | | | @LO (dBm) |
| | | +22 | | | +22 | | | +22 |
| 1530.0 | 670.1 | 10.52 | 10.0 | 1410.1 | 15.86 | 2430.0 | 570.1 | 10.86 |
| 1447.4 | 752.7 | 10.16 | 90.0 | 1490.1 | 8.40 | 2370.0 | 630.1 | 10.43 |
| 1364.8 | 835.3 | 9.92 | 170.0 | 1570.1 | 8.02 | 2310.0 | 690.1 | 10.05 |
| 1282.2 | 917.9 | 9.57 | 250.0 | 1650.1 | 8.03 | 2250.0 | 750.1 | 9.68 |
| 1199.6 | 1000.5 | 9.25 | 330.0 | 1730.1 | 8.19 | 2190.0 | 810.1 | 9.59 |
| 1117.0 | 1083.1 | 8.89 | 410.0 | 1810.1 | 7.87 | 2130.0 | 870.1 | 9.31 |
| 1034.3 | 1165.8 | 8.65 | 490.0 | 1890.1 | 7.61 | 2070.0 | 930.1 | 9.16 |
| 951.7 | 1248.4 | 8.50 | 570.0 | 1970.1 | 7.45 | 2010.0 | 990.1 | 9.13 |
| 869.1 | 1331.0 | 8.53 | 650.0 | 2050.1 | 7.30 | 1950.0 | 1050.1 | 8.86 |
| 786.5 | 1413.6 | 8.24 | 730.0 | 2130.1 | 7.19 | 1890.0 | 1110.1 | 8.82 |
| 703.9 | 1496.2 | 7.95 | 810.0 | 2210.1 | 7.08 | 1830.0 | 1170.1 | 8.58 |
| 621.3 | 1578.8 | 7.90 | 890.0 | 2290.1 | 6.99 | 1770.0 | 1230.1 | 8.47 |
| 538.7 | 1661.4 | 7.99 | 970.0 | 2370.1 | 7.08 | 1710.0 | 1290.1 | 8.38 |
| 456.1 | 1744.0 | 8.15 | 1050.0 | 2450.1 | 7.29 | 1650.0 | 1350.1 | 9.40 |
| 373.5 | 1826.6 | 8.47 | 1130.0 | 2530.1 | 7.47 | 1590.0 | 1410.1 | 8.96 |
| 290.9 | 1909.2 | 8.46 | 1210.0 | 2610.1 | 7.52 | 1530.0 | 1470.1 | 8.73 |
| 208.3 | 1991.8 | 8.05 | 1290.0 | 2690.1 | 7.48 | 1470.0 | 1530.1 | 8.54 |
| 125.7 | 2074.4 | 8.00 | 1370.0 | 2770.1 | 7.46 | 1410.0 | 1590.1 | 8.33 |
| 43.0 | 2157.1 | 8.87 | 1450.0 | 2850.1 | 7.46 | 1350.0 | 1650.1 | 8.37 |
| 57.4 | 2257.5 | 8.48 | 1530.0 | 2930.1 | 7.56 | 1290.0 | 1710.1 | 8.33 |
| 152.2 | 2352.3 | 7.76 | 1610.0 | 3010.1 | 7.69 | 1230.0 | 1770.1 | 8.33 |
| 270.7 | 2470.8 | 7.78 | 1690.0 | 3090.1 | 7.78 | 1170.0 | 1830.1 | 8.28 |
| 365.4 | 2565.5 | 7.80 | 1770.0 | 3170.1 | 7.95 | 1110.0 | 1890.1 | 8.27 |
| 483.9 | 2684.0 | 7.36 | 1850.0 | 3250.1 | 8.06 | 1050.0 | 1950.1 | 8.24 |
| 578.7 | 2778.8 | 7.31 | 1930.0 | 3330.1 | 8.22 | 990.0 | 2010.1 | 8.25 |
| 697.2 | 2897.3 | 7.43 | 2010.0 | 3410.1 | 8.28 | 930.0 | 2070.1 | 8.28 |
| 792.0 | 2992.1 | 7.50 | 2090.0 | 3490.1 | 8.34 | 870.0 | 2130.1 | 8.18 |
| 910.4 | 3110.5 | 7.59 | 2150.0 | 3550.1 | 8.34 | 810.0 | 2190.1 | 8.26 |
| 1005.2 | 3205.3 | 7.64 | 2230.0 | 3630.1 | 8.45 | 750.0 | 2250.1 | 8.31 |
| 1123.7 | 3323.8 | 7.77 | 2290.0 | 3690.1 | 8.55 | 690.0 | 2310.1 | 8.45 |
| 1218.5 | 3418.6 | 7.87 | 2370.0 | 3770.1 | 8.72 | 630.0 | 2370.1 | 8.57 |
| 1337.0 | 3537.1 | 7.94 | 2430.0 | 3830.1 | 8.80 | 570.0 | 2430.1 | 8.68 |
| 1431.7 | 3631.8 | 7.95 | 2510.0 | 3910.1 | 8.94 | 490.0 | 2510.1 | 8.82 |
| 1550.2 | 3750.3 | 7.97 | 2570.0 | 3970.1 | 9.07 | 430.0 | 2570.1 | 8.88 |
| 1645.0 | 3845.1 | 8.00 | 2650.0 | 4050.1 | 9.33 | 350.0 | 2650.1 | 9.12 |
| 1763.5 | 3963.6 | 7.99 | 2710.0 | 4110.1 | 9.47 | 290.0 | 2710.1 | 8.83 |
| 1858.3 | 4058.4 | 8.01 | 2790.0 | 4190.1 | 9.76 | 210.0 | 2790.1 | 8.23 |
| 1976.7 | 4176.8 | 8.30 | 2850.0 | 4250.1 | 10.03 | 150.0 | 2850.1 | 7.93 |
| 2071.5 | 4271.6 | 8.62 | 2930.0 | 4330.1 | 10.56 | 70.0 | 2930.1 | 8.23 |
| 2190.0 | 4390.1 | 9.20 | 2990.0 | 4390.1 | 11.05 | 10.0 | 2990.1 | 16.50 |

Frequency Mixer

LAVI-362VH+

Typical Performance Data

| LO (MHz) | LO-RF ISOLATION (dB) | | | LO-IF ISOLATION (dB) | | |
|-------------|-------------------------|-------|-------|-------------------------|-------|-------|
| | @LO (dBm) | | | @LO (dBm) | | |
| | +21 | +22 | +23 | +21 | +22 | +23 |
| 630.1 | 59.09 | 59.12 | 59.00 | 59.60 | 59.95 | 60.26 |
| 650.1 | 59.19 | 59.23 | 59.30 | 60.00 | 60.34 | 60.89 |
| 750.1 | 59.39 | 59.33 | 59.30 | 60.09 | 60.40 | 60.98 |
| 850.1 | 59.74 | 59.88 | 59.99 | 59.85 | 60.43 | 61.36 |
| 950.1 | 59.91 | 60.11 | 60.18 | 58.35 | 58.75 | 59.37 |
| 1050.1 | 57.82 | 57.68 | 57.44 | 56.24 | 56.48 | 56.92 |
| 1150.1 | 54.89 | 54.47 | 53.66 | 55.05 | 55.31 | 55.72 |
| 1250.1 | 51.69 | 51.35 | 51.01 | 65.10 | 63.46 | 61.89 |
| 1350.1 | 45.58 | 45.69 | 46.11 | 51.48 | 51.78 | 52.11 |
| 1450.1 | 46.85 | 46.98 | 47.10 | 48.70 | 48.93 | 49.23 |
| 1550.1 | 47.23 | 47.35 | 47.51 | 49.10 | 49.36 | 49.76 |
| 1650.1 | 48.12 | 48.51 | 49.09 | 52.66 | 52.95 | 53.14 |
| 1750.1 | 50.05 | 50.52 | 51.06 | 49.98 | 50.48 | 50.98 |
| 1850.1 | 50.61 | 50.69 | 50.88 | 47.90 | 48.36 | 48.97 |
| 1950.1 | 49.71 | 49.65 | 49.76 | 45.37 | 45.56 | 45.70 |
| 2050.1 | 47.51 | 47.53 | 47.64 | 42.43 | 42.48 | 42.46 |
| 2150.1 | 45.41 | 45.39 | 45.23 | 42.31 | 42.37 | 42.14 |
| 2250.1 | 42.75 | 42.57 | 42.68 | 43.47 | 43.43 | 43.50 |
| 2350.1 | 44.84 | 44.99 | 45.00 | 40.41 | 40.39 | 40.31 |
| 2450.1 | 48.07 | 48.12 | 48.15 | 36.46 | 36.42 | 36.38 |
| 2550.1 | 48.90 | 48.52 | 47.89 | 33.81 | 33.71 | 33.43 |
| 2650.1 | 47.45 | 47.23 | 46.89 | 30.77 | 30.57 | 30.15 |
| 2750.1 | 46.64 | 46.52 | 46.49 | 27.74 | 27.47 | 27.01 |
| 2850.1 | 44.17 | 43.88 | 43.69 | 26.12 | 25.69 | 25.38 |
| 2950.1 | 42.60 | 42.43 | 42.31 | 25.56 | 25.27 | 25.06 |
| 3050.1 | 44.34 | 44.14 | 43.83 | 26.49 | 26.22 | 25.86 |
| 3150.1 | 47.81 | 47.70 | 47.46 | 27.32 | 27.07 | 26.79 |
| 3250.1 | 49.64 | 49.66 | 49.77 | 28.08 | 28.02 | 27.95 |
| 3350.1 | 49.59 | 49.54 | 49.76 | 29.59 | 29.40 | 29.34 |
| 3450.1 | 49.62 | 49.84 | 50.03 | 31.02 | 30.98 | 30.90 |
| 3550.1 | 50.92 | 51.14 | 51.36 | 33.20 | 33.22 | 33.17 |
| 3650.1 | 53.56 | 53.72 | 54.13 | 35.65 | 35.68 | 35.64 |
| 3750.1 | 55.94 | 56.06 | 56.78 | 38.29 | 38.21 | 38.17 |
| 3850.1 | 60.00 | 60.54 | 61.56 | 41.27 | 41.18 | 40.98 |
| 3930.1 | 58.38 | 58.60 | 58.77 | 44.12 | 44.10 | 43.66 |
| 4030.1 | 53.68 | 53.67 | 53.47 | 48.21 | 48.08 | 47.63 |
| 4110.1 | 50.35 | 50.35 | 50.13 | 51.42 | 51.09 | 50.53 |
| 4210.1 | 47.54 | 47.37 | 47.21 | 50.79 | 50.82 | 50.68 |
| 4290.1 | 46.35 | 46.17 | 45.91 | 47.66 | 47.75 | 47.81 |
| 4390.1 | 43.69 | 43.47 | 43.44 | 46.00 | 46.06 | 46.12 |

| RF (IN) (MHz) | LO (MHz) | RF-IF ISOLATION (dB) | | |
|---------------------|-------------|-------------------------|-------|-------|
| | | @LO (dBm) | | |
| | | +21 | +22 | +23 |
| 90.1 | 630.1 | 19.99 | 20.17 | 20.33 |
| 110.1 | 650.1 | 21.08 | 21.18 | 21.17 |
| 210.1 | 750.1 | 23.35 | 23.81 | 24.24 |
| 310.1 | 850.1 | 24.98 | 25.15 | 25.26 |
| 410.1 | 950.1 | 30.12 | 29.45 | 28.58 |
| 510.1 | 1050.1 | 80.24 | 62.40 | 52.64 |
| 610.1 | 1150.1 | 34.42 | 31.40 | 28.03 |
| 710.1 | 1250.1 | 44.62 | 45.20 | 47.13 |
| 810.1 | 1350.1 | 25.93 | 24.09 | 21.42 |
| 910.1 | 1450.1 | 28.82 | 27.96 | 26.99 |
| 1010.1 | 1550.1 | 29.89 | 29.04 | 28.01 |
| 1110.1 | 1650.1 | 30.38 | 29.18 | 27.08 |
| 1210.1 | 1750.1 | 34.89 | 34.15 | 33.13 |
| 1310.1 | 1850.1 | 35.39 | 34.22 | 32.25 |
| 1410.1 | 1950.1 | 37.55 | 37.25 | 36.83 |
| 1510.1 | 2050.1 | 38.61 | 38.70 | 38.66 |
| 1610.1 | 2150.1 | 38.84 | 39.06 | 39.27 |
| 1710.1 | 2250.1 | 38.62 | 38.95 | 39.25 |
| 1810.1 | 2350.1 | 38.83 | 39.15 | 39.39 |
| 1910.1 | 2450.1 | 37.66 | 38.03 | 38.51 |
| 2010.1 | 2550.1 | 36.59 | 36.77 | 36.92 |
| 2110.1 | 2650.1 | 36.33 | 36.46 | 36.52 |
| 2210.1 | 2750.1 | 36.04 | 35.90 | 35.31 |
| 2310.1 | 2850.1 | 35.18 | 34.97 | 34.84 |
| 2410.1 | 2950.1 | 32.70 | 32.34 | 31.68 |
| 2510.1 | 3050.1 | 33.46 | 33.39 | 33.18 |
| 2610.1 | 3150.1 | 35.90 | 35.93 | 35.99 |
| 2710.1 | 3250.1 | 36.27 | 35.56 | 35.23 |
| 2810.1 | 3350.1 | 35.92 | 36.17 | 36.49 |
| 2910.1 | 3450.1 | 36.43 | 36.06 | 35.73 |
| 3010.1 | 3550.1 | 39.02 | 39.26 | 39.49 |
| 3110.1 | 3650.1 | 45.37 | 46.17 | 46.95 |
| 3210.1 | 3750.1 | 54.85 | 52.31 | 50.28 |
| 3310.1 | 3850.1 | 44.17 | 43.02 | 42.00 |
| 3390.1 | 3930.1 | 41.61 | 40.76 | 40.05 |
| 3490.1 | 4030.1 | 40.76 | 40.09 | 39.47 |
| 3570.1 | 4110.1 | 40.93 | 40.38 | 39.82 |
| 3670.1 | 4210.1 | 40.94 | 40.53 | 40.15 |
| 3750.1 | 4290.1 | 40.52 | 40.20 | 39.86 |
| 3850.1 | 4390.1 | 39.89 | 39.62 | 39.58 |

Frequency Mixer

LAVI-362VH+

Typical Performance Data

| RF (IN) (MHz) | LO (MHz) | RF VSWR (:1) | | | LO (MHz) | LO VSWR (:1) | | | IF (OUT) (MHz) | IF VSWR @LO=3540MHz (:1) | | |
|------------------|-------------|-----------------|------|------|-------------|-----------------|------|------|-------------------|--------------------------------|------|------|
| | | @LO (dBm) | | | | @LO (dBm) | | | | @LO (dBm) | | |
| | | +21 | +22 | +23 | | +21 | +22 | +23 | | +21 | +22 | +23 |
| 90.1 | 630.1 | 1.18 | 1.14 | 1.11 | 630.1 | 4.47 | 4.47 | 4.46 | 50.0 | 2.57 | 2.56 | 2.56 |
| 110.1 | 650.1 | 1.19 | 1.15 | 1.12 | 650.1 | 4.45 | 4.45 | 4.44 | 110.0 | 1.43 | 1.45 | 1.46 |
| 210.1 | 750.1 | 1.32 | 1.29 | 1.27 | 750.1 | 4.63 | 4.62 | 4.61 | 190.0 | 1.22 | 1.25 | 1.27 |
| 310.1 | 850.1 | 1.46 | 1.45 | 1.45 | 850.1 | 4.88 | 4.87 | 4.84 | 290.0 | 1.47 | 1.49 | 1.51 |
| 410.1 | 950.1 | 1.49 | 1.48 | 1.48 | 950.1 | 5.27 | 5.25 | 5.22 | 370.0 | 1.60 | 1.62 | 1.64 |
| 510.1 | 1050.1 | 1.60 | 1.59 | 1.58 | 1050.1 | 5.79 | 5.75 | 5.72 | 470.0 | 1.68 | 1.70 | 1.72 |
| 610.1 | 1150.1 | 1.73 | 1.70 | 1.68 | 1150.1 | 6.42 | 6.37 | 6.30 | 550.0 | 1.79 | 1.81 | 1.83 |
| 710.1 | 1250.1 | 1.96 | 1.93 | 1.91 | 1250.1 | 7.11 | 7.05 | 6.94 | 650.0 | 1.93 | 1.95 | 1.96 |
| 810.1 | 1350.1 | 1.82 | 1.80 | 1.79 | 1350.1 | 7.53 | 7.47 | 7.38 | 730.0 | 1.94 | 1.96 | 1.97 |
| 910.1 | 1450.1 | 1.79 | 1.77 | 1.75 | 1450.1 | 8.95 | 8.86 | 8.77 | 830.0 | 1.97 | 1.99 | 2.01 |
| 1010.1 | 1550.1 | 1.88 | 1.86 | 1.84 | 1550.1 | 9.63 | 9.53 | 9.38 | 910.0 | 1.91 | 1.93 | 1.94 |
| 1110.1 | 1650.1 | 1.97 | 1.94 | 1.92 | 1650.1 | 9.43 | 9.38 | 9.28 | 1010.0 | 1.85 | 1.86 | 1.88 |
| 1210.1 | 1750.1 | 2.07 | 2.05 | 2.02 | 1750.1 | 8.20 | 8.12 | 8.01 | 1090.0 | 1.74 | 1.76 | 1.77 |
| 1310.1 | 1850.1 | 2.08 | 2.05 | 2.03 | 1850.1 | 6.24 | 6.19 | 6.13 | 1190.0 | 1.63 | 1.64 | 1.65 |
| 1410.1 | 1950.1 | 1.98 | 1.94 | 1.92 | 1950.1 | 4.39 | 4.35 | 4.31 | 1270.0 | 1.51 | 1.52 | 1.53 |
| 1510.1 | 2050.1 | 1.90 | 1.88 | 1.85 | 2050.1 | 3.02 | 2.99 | 2.96 | 1370.0 | 1.39 | 1.40 | 1.42 |
| 1610.1 | 2150.1 | 1.88 | 1.86 | 1.83 | 2150.1 | 2.17 | 2.15 | 2.13 | 1450.0 | 1.31 | 1.33 | 1.35 |
| 1710.1 | 2250.1 | 1.80 | 1.77 | 1.75 | 2250.1 | 1.78 | 1.77 | 1.76 | 1550.0 | 1.23 | 1.26 | 1.28 |
| 1810.1 | 2350.1 | 1.72 | 1.70 | 1.68 | 2350.1 | 1.76 | 1.76 | 1.76 | 1630.0 | 1.18 | 1.21 | 1.23 |
| 1910.1 | 2450.1 | 1.62 | 1.60 | 1.58 | 2450.1 | 1.97 | 1.98 | 1.99 | 1730.0 | 1.16 | 1.19 | 1.21 |
| 2010.1 | 2550.1 | 1.49 | 1.47 | 1.45 | 2550.1 | 2.29 | 2.30 | 2.31 | 1810.0 | 1.14 | 1.17 | 1.20 |
| 2110.1 | 2650.1 | 1.37 | 1.35 | 1.33 | 2650.1 | 2.62 | 2.65 | 2.66 | 1910.0 | 1.13 | 1.16 | 1.18 |
| 2210.1 | 2750.1 | 1.26 | 1.24 | 1.22 | 2750.1 | 2.98 | 3.00 | 3.01 | 1990.0 | 1.15 | 1.17 | 1.19 |
| 2310.1 | 2850.1 | 1.22 | 1.20 | 1.18 | 2850.1 | 3.33 | 3.34 | 3.36 | 2090.0 | 1.14 | 1.16 | 1.18 |
| 2410.1 | 2950.1 | 1.23 | 1.22 | 1.21 | 2950.1 | 3.60 | 3.62 | 3.62 | 2170.0 | 1.14 | 1.15 | 1.16 |
| 2510.1 | 3050.1 | 1.24 | 1.24 | 1.23 | 3050.1 | 3.78 | 3.78 | 3.77 | 2270.0 | 1.12 | 1.13 | 1.14 |
| 2610.1 | 3150.1 | 1.22 | 1.23 | 1.23 | 3150.1 | 3.76 | 3.73 | 3.70 | 2350.0 | 1.07 | 1.08 | 1.09 |
| 2710.1 | 3250.1 | 1.17 | 1.18 | 1.18 | 3250.1 | 3.56 | 3.53 | 3.50 | 2450.0 | 1.07 | 1.09 | 1.10 |
| 2810.1 | 3350.1 | 1.23 | 1.26 | 1.27 | 3350.1 | 3.26 | 3.21 | 3.16 | 2530.0 | 1.12 | 1.14 | 1.15 |
| 2910.1 | 3450.1 | 1.39 | 1.41 | 1.43 | 3450.1 | 2.94 | 2.90 | 2.88 | 2630.0 | 1.14 | 1.16 | 1.17 |
| 3010.1 | 3550.1 | 1.51 | 1.54 | 1.56 | 3550.1 | 2.65 | 2.63 | 2.60 | 2710.0 | 1.16 | 1.18 | 1.19 |
| 3110.1 | 3650.1 | 1.61 | 1.63 | 1.65 | 3650.1 | 2.44 | 2.43 | 2.42 | 2810.0 | 1.21 | 1.23 | 1.25 |
| 3210.1 | 3750.1 | 1.68 | 1.70 | 1.72 | 3750.1 | 2.30 | 2.29 | 2.29 | 2890.0 | 1.27 | 1.29 | 1.30 |
| 3310.1 | 3850.1 | 1.76 | 1.77 | 1.80 | 3850.1 | 2.21 | 2.21 | 2.21 | 2990.0 | 1.29 | 1.31 | 1.33 |
| 3390.1 | 3930.1 | 1.83 | 1.84 | 1.87 | 3930.1 | 2.17 | 2.17 | 2.17 | 3070.0 | 1.28 | 1.29 | 1.29 |
| 3490.1 | 4030.1 | 1.89 | 1.90 | 1.93 | 4030.1 | 2.22 | 2.22 | 2.22 | 3170.0 | 1.17 | 1.16 | 1.16 |
| 3570.1 | 4110.1 | 1.92 | 1.94 | 1.97 | 4110.1 | 2.23 | 2.22 | 2.22 | 3250.0 | 1.08 | 1.08 | 1.08 |
| 3670.1 | 4210.1 | 1.94 | 1.96 | 1.99 | 4210.1 | 2.32 | 2.32 | 2.32 | 3350.0 | 1.16 | 1.17 | 1.18 |
| 3750.1 | 4290.1 | 1.91 | 1.93 | 1.96 | 4290.1 | 2.35 | 2.34 | 2.33 | 3430.0 | 1.29 | 1.31 | 1.33 |
| 3850.1 | 4390.1 | 1.91 | 1.94 | 1.94 | 4390.1 | 2.46 | 2.45 | 2.45 | 3530.0 | 1.55 | 1.58 | 1.61 |

Harmonics Tables

RF HARMONICS ORDER

| | (-dBm) | (-dBc) | | | | | | | | | | |
|----|--------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0 | - | - | +2 | 5 | 25 | 34 | 40 | 56 | 42 | 51 | --- | --- |
| 1 | - | 29 | +0 | 33 | 26 | 37 | 41 | 55 | 57 | 70 | 70 | --- |
| 2 | 58 | 59 | 67 | 48 | 61 | 61 | 74 | 73 | 79 | >83 | >83 | >83 |
| 3 | >90 | >83 | >83 | >83 | >83 | >83 | >83 | >83 | >83 | >83 | >83 | >83 |
| 4 | >90 | >83 | >83 | >83 | >83 | >83 | >83 | >83 | >83 | >83 | >83 | >83 |
| 5 | >90 | >83 | >83 | >83 | >83 | >83 | >83 | >83 | >83 | >83 | >83 | >83 |
| 6 | >90 | >83 | >83 | >83 | >83 | >83 | >83 | >83 | >83 | >83 | >83 | >83 |
| 7 | >90 | >83 | >83 | >83 | >83 | >83 | >83 | >83 | >83 | >83 | >83 | >83 |
| 8 | >90 | >83 | >83 | >83 | >83 | >83 | >83 | >83 | >83 | >83 | >83 | >83 |
| 9 | >90 | >83 | >83 | >83 | >83 | >83 | >83 | >83 | >83 | >83 | >83 | >83 |
| 10 | >90 | >83 | >83 | >83 | >83 | >83 | >83 | >83 | 82 | >83 | 80 | >83 |
| | RF CAL | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

LO HARMONICS ORDER

Test conditions: RF IN: 2200 MHz; 0.00 dBm.
 LO IN: 2740 MHz; +22.00 dBm
 IF OUT: 540 MHz; -7.44 dBm

RF HARMONICS ORDER

| | (-dBm) | (-dBc) | | | | | | | | | | |
|----|--------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0 | - | - | 8 | 15 | 35 | 46 | 51 | 68 | 53 | 62 | --- | --- |
| 1 | - | 29 | +0 | 33 | 26 | 37 | 41 | 55 | 57 | 71 | 71 | --- |
| 2 | 38 | 48 | 58 | 38 | 52 | 50 | 63 | 62 | 70 | 83 | 78 | 84 |
| 3 | 67 | 84 | 64 | 65 | 61 | 78 | 78 | 85 | 83 | 91 | >93 | 92 |
| 4 | 90 | 88 | 84 | 87 | 79 | 78 | 83 | >93 | >93 | >93 | >93 | >93 |
| 5 | >90 | >93 | >93 | >93 | 90 | >93 | 83 | >93 | >93 | >93 | >93 | >93 |
| 6 | >90 | >93 | >93 | >93 | >93 | >93 | >93 | >93 | >93 | >93 | >93 | >93 |
| 7 | >90 | >93 | >93 | >93 | >93 | >93 | >93 | >93 | >93 | >93 | >93 | >93 |
| 8 | >90 | >93 | >93 | >93 | >93 | >93 | >93 | >93 | >93 | >93 | >93 | >93 |
| 9 | >90 | >93 | >93 | >93 | >93 | >93 | >93 | >93 | >93 | >93 | >93 | >93 |
| 10 | >90 | >93 | >93 | >93 | >93 | >93 | >93 | >93 | 93 | >93 | 90 | >93 |
| | RF CAL | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

LO HARMONICS ORDER

Test conditions: RF IN: 2200 MHz; 10.00 dBm.
 LO IN: 2740 MHz; +22.00 dBm
 IF OUT: 540 MHz; 2.59 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.