

Frequency Mixer

ZFM-2+

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 | 7.65 | 7.23 | 7.05 | 1.0 | 64.00 | 67.00 | 70.00 | 64.00 | 67.00 | 70.00 |
| 2.0 | 32.0 | 6.99 | 6.50 | 6.38 | 2.0 | 64.00 | 67.00 | 70.00 | 64.00 | 67.00 | 70.00 |
| 5.0 | 35.0 | 6.14 | 5.80 | 5.68 | 5.0 | 64.00 | 67.00 | 70.00 | 64.00 | 67.00 | 70.00 |
| 10.0 | 40.0 | 6.01 | 5.62 | 5.47 | 10.0 | 64.00 | 67.00 | 70.00 | 64.00 | 67.00 | 70.00 |
| 20.0 | 50.0 | 6.10 | 5.68 | 5.51 | 20.0 | 64.00 | 67.00 | 70.00 | 64.00 | 67.00 | 70.00 |
| 50.0 | 80.0 | 5.94 | 5.58 | 5.44 | 50.0 | 64.00 | 61.94 | 60.30 | 64.00 | 63.74 | 61.51 |
| 100.0 | 70.0 | 5.88 | 5.53 | 5.39 | 100.0 | 56.03 | 54.33 | 53.23 | 55.98 | 54.76 | 53.00 |
| 167.3 | 137.3 | 5.89 | 5.57 | 5.44 | 167.3 | 50.05 | 48.65 | 48.08 | 48.75 | 47.61 | 47.01 |
| 233.9 | 203.9 | 6.02 | 5.72 | 5.54 | 233.9 | 46.08 | 45.10 | 44.88 | 43.82 | 43.03 | 43.10 |
| 300.4 | 270.4 | 5.74 | 5.45 | 5.37 | 300.4 | 43.14 | 42.56 | 42.56 | 40.29 | 40.00 | 40.23 |
| 366.9 | 336.9 | 6.01 | 5.73 | 5.58 | 366.9 | 40.77 | 40.45 | 40.57 | 37.73 | 37.57 | 38.18 |
| 466.7 | 436.7 | 6.15 | 5.82 | 5.66 | 466.7 | 38.41 | 38.33 | 38.72 | 33.78 | 34.32 | 35.36 |
| 500.0 | 470.0 | 6.05 | 5.72 | 5.56 | 500.0 | 38.98 | 38.80 | 39.09 | 33.83 | 34.10 | 34.86 |
| 599.8 | 569.8 | 6.34 | 6.02 | 5.78 | 599.8 | 38.50 | 37.43 | 36.87 | 32.71 | 32.81 | 32.88 |
| 666.3 | 636.3 | 6.54 | 6.11 | 5.88 | 666.3 | 38.54 | 37.94 | 37.43 | 31.60 | 31.57 | 31.51 |
| 799.4 | 769.4 | 7.07 | 6.27 | 5.92 | 799.4 | 35.96 | 36.06 | 36.24 | 29.94 | 29.67 | 29.67 |
| 832.7 | 802.7 | 7.29 | 6.46 | 6.03 | 832.7 | 35.29 | 35.22 | 35.39 | 28.80 | 28.79 | 28.42 |
| 899.2 | 869.2 | 7.77 | 7.00 | 6.39 | 899.2 | 34.14 | 33.77 | 33.77 | 26.59 | 26.14 | 25.92 |
| 932.5 | 902.5 | 8.11 | 7.37 | 6.84 | 932.5 | 33.72 | 33.17 | 33.14 | 25.85 | 25.03 | 24.52 |
| 1000.0 | 969.0 | 8.20 | 7.63 | 7.18 | 1000.0 | 33.25 | 32.49 | 32.14 | 24.75 | 23.59 | 22.58 |

REV. X1
ZFM-2+
060614
Page 1 of 2



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED RoHS compliant
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ZFM-2+

Typical Performance Data

| RF/LO (MHz) | RF VSWR (:1) | | | LO VSWR (:1) | | | IF (MHz) | IF VSWR (:1) | | | LO/RF (MHz) | max. DC output (mV) | DC Offset (mV) |
|----------------|-----------------|------|------|-----------------|------|------|-------------|-----------------|------|------|----------------|------------------------------|----------------------|
| | @LO (dBm) | | | @LO (dBm) | | | | @LO (dBm) | | | @LO (dBm) | | |
| | +4 | +7 | +10 | +4 | +7 | +10 | | +4 | +7 | +10 | +7 | | |
| 5.0 | 1.26 | 1.30 | 1.34 | 1.77 | 2.70 | 4.33 | 5.0 | 1.43 | 1.24 | 1.09 | 1.00 | -230.1 | 0.09 |
| 10.0 | 1.12 | 1.15 | 1.20 | 1.71 | 2.63 | 3.91 | 10.0 | 1.44 | 1.25 | 1.10 | 2.00 | -234.9 | 0.09 |
| 20.0 | 1.04 | 1.07 | 1.15 | 1.76 | 2.77 | 3.95 | 20.0 | 1.43 | 1.25 | 1.10 | 5.00 | -240.2 | 0.08 |
| 50.0 | 1.02 | 1.06 | 1.15 | 1.69 | 2.55 | 3.74 | 50.0 | 1.44 | 1.25 | 1.11 | 20.00 | -240.2 | 0.09 |
| 100.0 | 1.06 | 1.07 | 1.14 | 1.63 | 2.41 | 3.37 | 100.0 | 1.45 | 1.27 | 1.13 | 50.00 | -236.5 | 0.09 |
| 155.8 | 1.09 | 1.09 | 1.14 | 1.61 | 2.37 | 3.24 | 155.8 | 1.49 | 1.31 | 1.18 | 100.00 | -238.6 | 0.08 |
| 200.0 | 1.12 | 1.11 | 1.14 | 1.54 | 2.29 | 3.18 | 200.0 | 1.54 | 1.36 | 1.23 | 161.97 | -242.9 | 0.06 |
| 306.5 | 1.18 | 1.16 | 1.16 | 1.53 | 2.20 | 2.95 | 306.5 | 1.66 | 1.48 | 1.35 | 200.00 | -243.4 | 0.02 |
| 366.8 | 1.21 | 1.18 | 1.17 | 1.52 | 2.16 | 2.89 | 366.8 | 1.75 | 1.57 | 1.44 | 290.75 | -246.8 | 0.11 |
| 427.1 | 1.23 | 1.20 | 1.18 | 1.52 | 2.13 | 2.83 | 427.1 | 1.84 | 1.66 | 1.53 | 322.94 | -237.6 | 0.11 |
| 500.0 | 1.26 | 1.22 | 1.21 | 1.55 | 2.06 | 2.74 | 500.0 | 1.97 | 1.77 | 1.66 | 387.33 | -224.0 | 0.01 |
| 547.7 | 1.28 | 1.23 | 1.22 | 1.53 | 2.13 | 2.70 | 547.7 | 2.04 | 1.88 | 1.78 | 451.72 | -223.3 | 0.22 |
| 608.0 | 1.30 | 1.26 | 1.24 | 1.50 | 2.09 | 2.65 | 608.0 | 2.02 | 1.87 | 1.77 | 500.00 | -229.6 | 0.23 |
| 668.3 | 1.34 | 1.29 | 1.27 | 1.51 | 2.09 | 2.65 | 668.3 | 2.07 | 1.90 | 1.81 | 580.49 | -229.0 | 0.37 |
| 728.7 | 1.38 | 1.34 | 1.32 | 1.56 | 2.04 | 2.69 | 728.7 | 2.08 | 1.91 | 1.83 | 644.88 | -207.4 | 0.48 |
| 789.0 | 1.44 | 1.40 | 1.38 | 1.61 | 2.13 | 2.69 | 789.0 | 2.07 | 1.91 | 1.82 | 709.27 | -196.5 | 1.06 |
| 849.3 | 1.51 | 1.47 | 1.46 | 1.63 | 2.19 | 2.70 | 849.3 | 2.02 | 1.86 | 1.77 | 773.66 | -138.5 | 0.83 |
| 909.6 | 1.58 | 1.55 | 1.54 | 1.67 | 2.24 | 2.78 | 909.6 | 1.93 | 1.77 | 1.68 | 838.04 | -187.3 | 0.49 |
| 969.9 | 1.60 | 1.66 | 1.66 | 1.74 | 2.28 | 2.85 | 969.9 | 1.81 | 1.66 | 1.57 | 902.43 | -173.9 | 0.72 |
| 1000.0 | 1.75 | 1.72 | 1.72 | 1.77 | 2.30 | 2.89 | 1000.0 | 1.74 | 1.60 | 1.51 | 1000.00 | -178.5 | 0.64 |

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Page 2 of 2



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