

Frequency Mixer

ZAD-8+

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 |
| 0.001 | 3.0 | 5.43 | 5.26 | 4.97 | 0.001 | 63.49 | 67.32 | 68.05 | 64.00 | 67.00 | 70.00 |
| 0.002 | 3.0 | 5.18 | 4.96 | 4.76 | 0.002 | 63.34 | 67.15 | 67.96 | 64.00 | 67.00 | 70.00 |
| 0.005 | 3.0 | 4.98 | 4.92 | 4.61 | 0.005 | 63.46 | 67.23 | 67.72 | 64.00 | 67.00 | 70.00 |
| 0.01 | 3.0 | 4.96 | 4.88 | 4.59 | 0.01 | 63.99 | 67.03 | 67.90 | 64.00 | 67.00 | 70.00 |
| 0.02 | 3.0 | 5.04 | 4.84 | 4.64 | 0.02 | 64.00 | 66.98 | 68.02 | 64.00 | 67.00 | 70.00 |
| 0.05 | 3.1 | 5.04 | 4.84 | 4.61 | 0.05 | 64.00 | 66.86 | 68.43 | 64.00 | 67.00 | 70.00 |
| 0.10 | 3.1 | 5.00 | 4.79 | 4.59 | 0.10 | 64.00 | 67.00 | 68.45 | 64.00 | 67.00 | 70.00 |
| 0.20 | 3.2 | 5.06 | 4.88 | 4.63 | 0.20 | 64.00 | 67.00 | 68.61 | 64.00 | 67.00 | 70.00 |
| 0.50 | 3.5 | 5.07 | 4.86 | 4.64 | 0.50 | 64.00 | 66.98 | 68.77 | 64.00 | 67.00 | 70.00 |
| 0.70 | 3.7 | 5.11 | 4.83 | 4.66 | 0.70 | 64.00 | 67.00 | 68.83 | 64.00 | 67.00 | 70.00 |
| 1.00 | 4.0 | 5.13 | 4.88 | 4.66 | 1.00 | 64.00 | 66.64 | 67.78 | 64.00 | 67.00 | 70.00 |
| 1.43 | 4.4 | 5.12 | 4.91 | 4.71 | 1.43 | 64.00 | 65.85 | 65.86 | 64.00 | 67.00 | 70.00 |
| 2.00 | 5.0 | 5.16 | 4.91 | 4.72 | 2.00 | 63.68 | 64.48 | 63.99 | 64.00 | 67.00 | 70.00 |
| 2.86 | 5.9 | 5.15 | 4.97 | 4.78 | 2.86 | 59.08 | 57.58 | 56.32 | 64.00 | 67.00 | 70.00 |
| 4.29 | 7.3 | 5.22 | 5.16 | 4.88 | 4.29 | 54.41 | 53.00 | 52.31 | 64.00 | 67.00 | 70.00 |
| 5.00 | 8.0 | 5.24 | 5.17 | 4.89 | 5.00 | 51.08 | 50.13 | 50.21 | 64.00 | 67.00 | 70.00 |
| 6.43 | 9.4 | 5.36 | 5.18 | 4.97 | 6.43 | 48.83 | 48.56 | 48.77 | 64.00 | 67.00 | 70.00 |
| 7.14 | 4.1 | 5.24 | 5.21 | 4.95 | 7.14 | 45.65 | 45.59 | 45.96 | 64.00 | 67.00 | 70.00 |
| 8.57 | 5.6 | 5.34 | 5.23 | 5.11 | 8.57 | 43.01 | 43.14 | 43.64 | 64.00 | 67.00 | 70.00 |
| 10.00 | 7.0 | 5.54 | 5.22 | 5.22 | 10.00 | 42.01 | 42.01 | 42.22 | 64.00 | 67.00 | 70.00 |

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IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED RoHS compliant

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Frequency Mixer

ZAD-8+

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 | | |
| 0.1 | 1.58 | 1.41 | 1.30 | 1.78 | 3.30 | 7.11 | 0.1 | 1.62 | 1.47 | 1.38 | 0.001 | -275.2 | -0.11 |
| 0.2 | 1.54 | 1.37 | 1.27 | 1.64 | 2.70 | 4.36 | 0.2 | 1.58 | 1.44 | 1.35 | 0.005 | -271.2 | -0.13 |
| 0.4 | 1.54 | 1.38 | 1.28 | 1.57 | 2.54 | 3.76 | 0.4 | 1.58 | 1.43 | 1.35 | 0.01 | -264.3 | -0.13 |
| 0.7 | 1.53 | 1.37 | 1.28 | 1.55 | 2.46 | 3.67 | 0.7 | 1.59 | 1.44 | 1.36 | 0.02 | -261.9 | -0.13 |
| 1.0 | 1.54 | 1.37 | 1.28 | 1.56 | 2.41 | 3.56 | 1.0 | 1.58 | 1.44 | 1.36 | 0.05 | -262.0 | -0.12 |
| 1.7 | 1.54 | 1.38 | 1.29 | 1.51 | 2.32 | 3.35 | 1.7 | 1.59 | 1.44 | 1.37 | 0.10 | -259.7 | -0.12 |
| 2.0 | 1.53 | 1.38 | 1.28 | 1.50 | 2.29 | 3.30 | 2.0 | 1.59 | 1.44 | 1.36 | 0.20 | -261.0 | -0.12 |
| 2.7 | 1.54 | 1.38 | 1.29 | 1.46 | 2.21 | 3.16 | 2.7 | 1.60 | 1.45 | 1.37 | 0.50 | -262.4 | -0.13 |
| 3.3 | 1.54 | 1.37 | 1.28 | 1.39 | 2.10 | 2.93 | 3.3 | 1.60 | 1.45 | 1.37 | 0.70 | -264.8 | -0.13 |
| 4.3 | 1.53 | 1.37 | 1.28 | 1.31 | 1.98 | 2.76 | 4.3 | 1.62 | 1.47 | 1.39 | 1.00 | -265.8 | -0.13 |
| 5.0 | 1.53 | 1.37 | 1.29 | 1.29 | 1.95 | 2.67 | 5.0 | 1.64 | 1.50 | 1.42 | 2.00 | -266.1 | -0.13 |
| 5.5 | 1.52 | 1.37 | 1.28 | 1.29 | 1.94 | 2.63 | 5.5 | 1.64 | 1.50 | 1.42 | 3.33 | -259.8 | -0.13 |
| 6.2 | 1.52 | 1.36 | 1.28 | 1.31 | 1.96 | 2.64 | 6.2 | 1.65 | 1.52 | 1.43 | 4.17 | -258.1 | -0.12 |
| 7.0 | 1.50 | 1.37 | 1.28 | 1.35 | 2.01 | 2.74 | 7.0 | 1.68 | 1.55 | 1.46 | 5.00 | -255.2 | -0.12 |
| 7.4 | 1.50 | 1.36 | 1.28 | 1.38 | 2.03 | 2.75 | 7.4 | 1.69 | 1.56 | 1.47 | 5.83 | -250.6 | -0.12 |
| 8.1 | 1.49 | 1.36 | 1.28 | 1.39 | 2.02 | 2.71 | 8.1 | 1.71 | 1.58 | 1.49 | 6.67 | -246.6 | -0.09 |
| 8.4 | 1.49 | 1.36 | 1.27 | 1.39 | 1.98 | 2.67 | 8.4 | 1.72 | 1.58 | 1.51 | 7.00 | -247.1 | -0.10 |
| 9.0 | 1.48 | 1.36 | 1.28 | 1.35 | 1.94 | 2.58 | 9.0 | 1.74 | 1.62 | 1.54 | 7.50 | -246.8 | -0.13 |
| 9.4 | 1.48 | 1.36 | 1.28 | 1.34 | 1.92 | 2.55 | 9.4 | 1.75 | 1.61 | 1.54 | 8.33 | -247.7 | -0.09 |
| 10.0 | 1.48 | 1.35 | 1.27 | 1.34 | 1.90 | 2.51 | 10.0 | 1.78 | 1.65 | 1.57 | 10.00 | -247.8 | -0.11 |

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