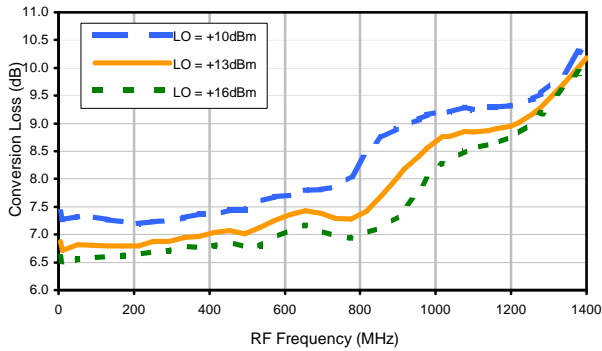


Frequency Mixer

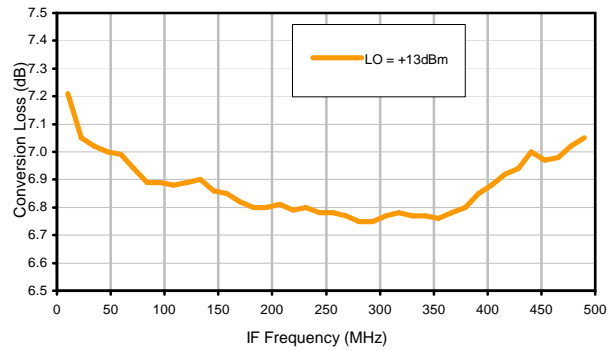
RMS-2MH

Typical Performance Curves

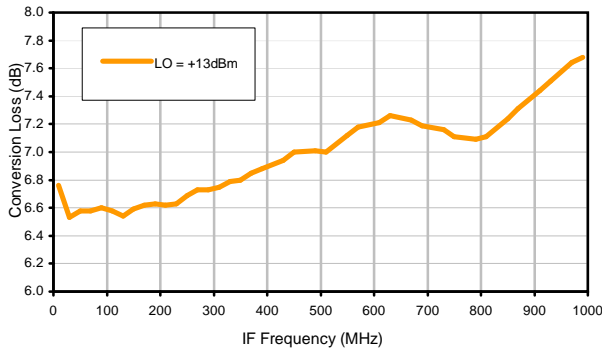
Conversion Loss @ IF=30MHz



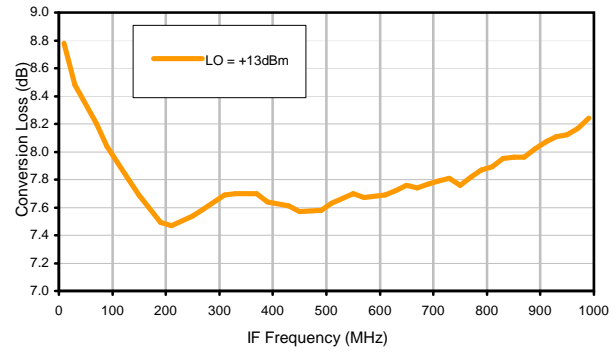
Conversion Loss vs. IF @ RF=500.1MHz



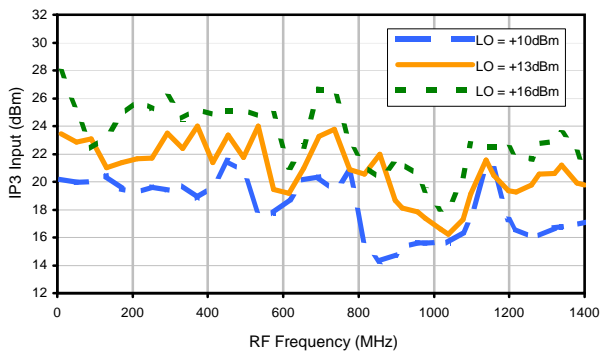
Conversion Loss vs. IF @ RF=10.1MHz



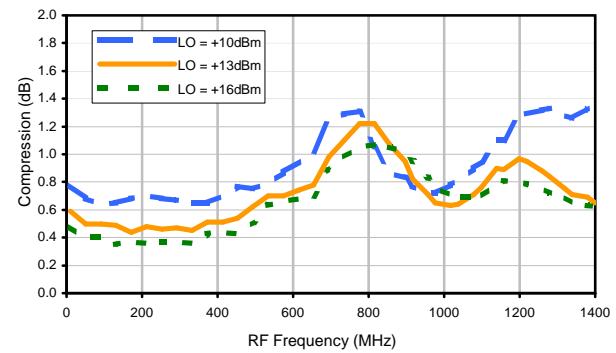
Conversion Loss vs. IF @ RF=1000.1MHz



IP3 Input

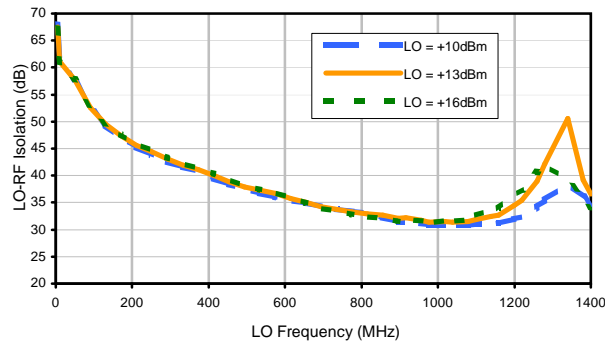


Compression @ RF IN=+9dBm

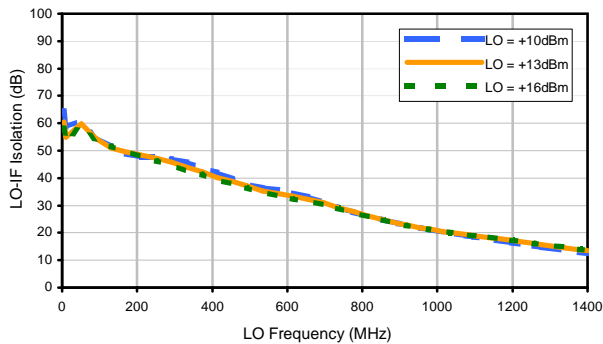


Typical Performance Curves

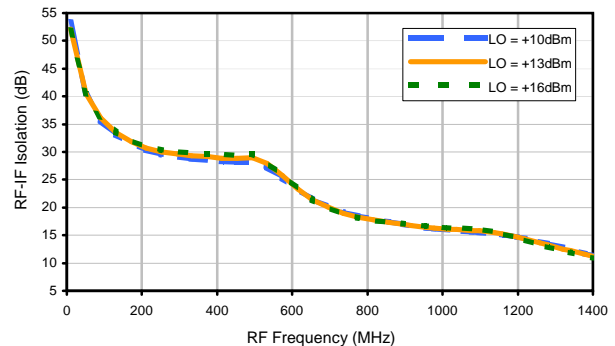
LO-RF Isolation



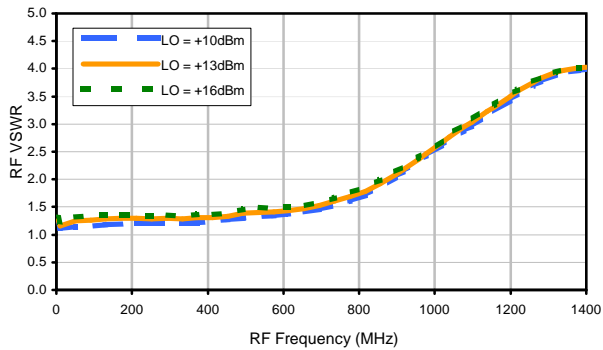
LO-IF Isolation



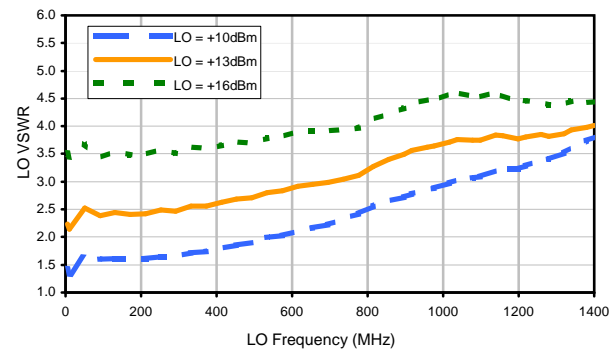
RF-IF Isolation



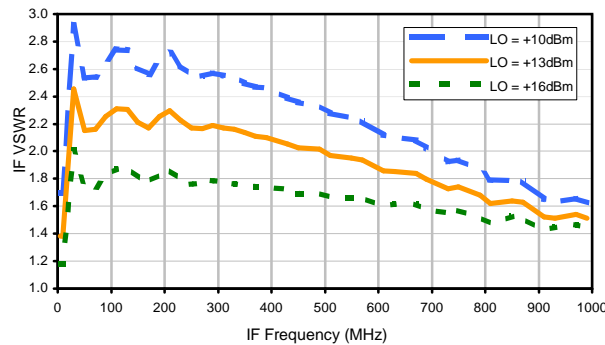
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

| | (-dBm) | (-dBc) | | | | | | | | | | |
|----|--------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0 | - | - | 7 | 23 | 11 | 33 | 16 | 35 | 18 | 36 | 36 | 47 |
| 1 | - | 19 | +0 | 31 | 13 | 33 | 28 | 41 | 43 | 39 | 48 | 44 |
| 2 | >100 | 63 | 47 | 72 | 50 | 71 | 50 | 73 | 55 | 64 | 55 | 64 |
| 3 | >100 | 69 | 73 | 70 | 61 | 69 | 59 | 71 | 68 | 75 | 64 | >87 |
| 4 | >100 | >87 | >87 | 87 | >87 | >87 | 80 | >87 | 83 | >87 | >87 | >87 |
| 5 | >100 | >87 | >87 | >87 | >87 | >87 | >87 | >87 | >87 | >87 | >87 | >87 |
| 6 | >100 | >87 | >87 | >87 | >87 | >87 | >87 | >87 | >87 | >87 | >87 | >87 |
| 7 | >100 | >87 | >87 | >87 | >87 | >87 | >87 | >87 | >87 | >87 | >87 | >87 |
| 8 | >100 | >87 | >87 | >87 | >87 | >87 | >87 | >87 | >87 | >87 | >87 | >87 |
| 9 | >100 | >87 | >87 | >87 | >87 | >87 | >87 | >87 | >87 | >87 | >87 | >87 |
| 10 | >100 | >87 | >87 | >87 | >87 | >87 | >87 | >87 | >87 | >87 | >87 | >87 |
| | RF CAL | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

LO HARMONICS ORDER

Test conditions: RF IN: 500.1 MHz; -6.00 dBm.
 LO IN: 530.01 MHz; +13.00 dBm
 IF OUT: 29.91 MHz; -13.08 dBm

RF HARMONICS ORDER

| | (-dBm) | (-dBc) | | | | | | | | | | |
|----|--------|--------|-----|-----|-----|-----|-----|-----|----|-----|----|-----|
| 0 | - | - | 16 | 34 | 23 | 45 | 28 | 46 | 32 | 50 | 51 | 74 |
| 1 | - | 20 | +0 | 29 | 13 | 36 | 28 | 47 | 42 | 44 | 52 | 51 |
| 2 | 81 | 60 | 39 | 55 | 39 | 68 | 41 | 59 | 48 | 62 | 45 | 63 |
| 3 | >100 | 49 | 58 | 55 | 47 | 55 | 43 | 54 | 64 | 57 | 51 | 57 |
| 4 | >100 | 77 | 69 | 69 | 66 | 69 | 66 | 75 | 62 | 85 | 72 | 69 |
| 5 | >100 | 81 | 75 | 71 | 55 | 64 | 54 | 62 | 52 | 64 | 60 | 74 |
| 6 | >100 | 95 | 88 | 93 | 77 | 83 | 70 | 76 | 64 | 75 | 65 | 78 |
| 7 | >100 | 80 | 86 | 89 | 80 | 82 | 74 | 82 | 72 | 76 | 72 | 83 |
| 8 | >100 | >97 | 93 | >97 | >97 | >97 | 91 | >97 | 84 | 93 | 79 | 90 |
| 9 | >100 | >97 | 96 | >97 | >97 | >97 | 89 | 94 | 85 | 88 | 86 | 88 |
| 10 | >100 | >97 | >97 | >97 | >97 | >97 | >97 | >97 | 96 | >97 | 91 | >97 |
| | RF CAL | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

LO HARMONICS ORDER

Test conditions: RF IN: 500.1 MHz; 4.00 dBm.
 LO IN: 530.01 MHz; +13.00 dBm
 IF OUT: 29.91 MHz; -3.09 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.

REV. X2
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