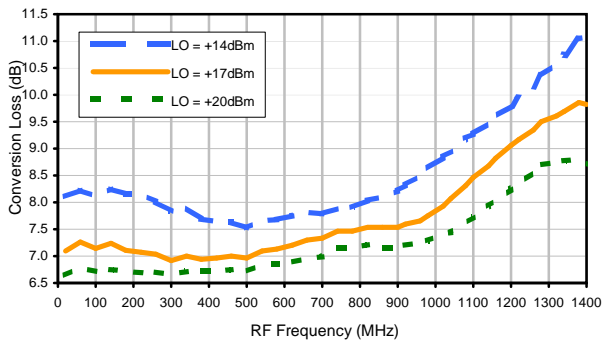


Frequency Mixer

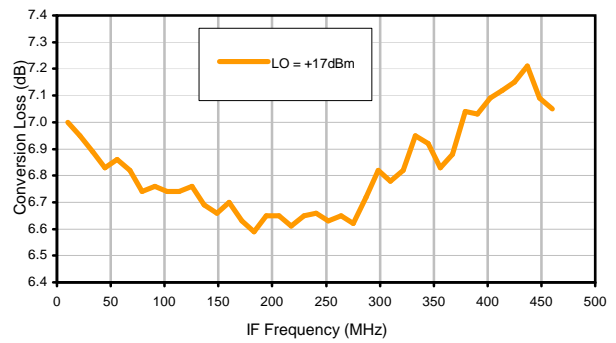
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Typical Performance Curves

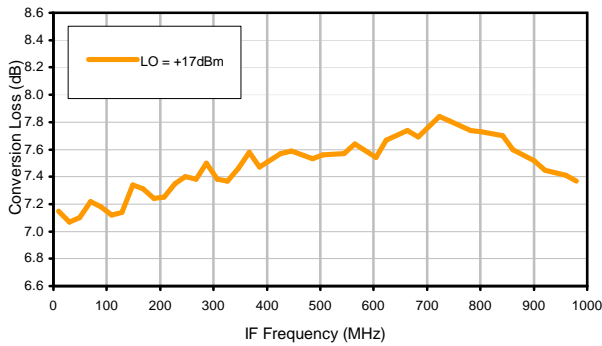
Conversion Loss @ IF=30MHz



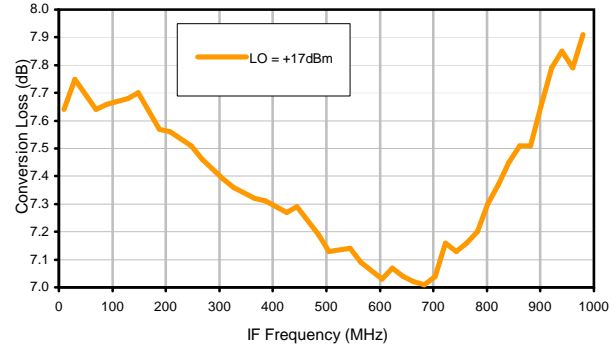
Conversion Loss vs. IF @ RF=500.1MHz



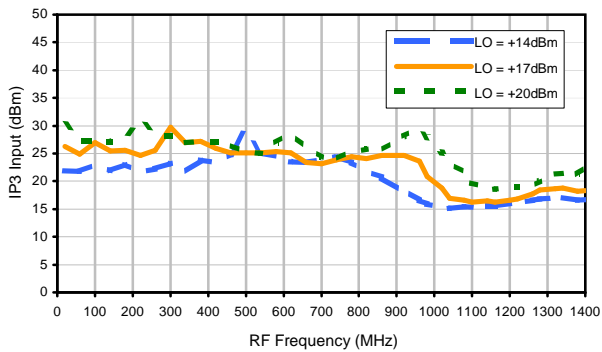
Conversion Loss vs. IF @ RF=20.1MHz



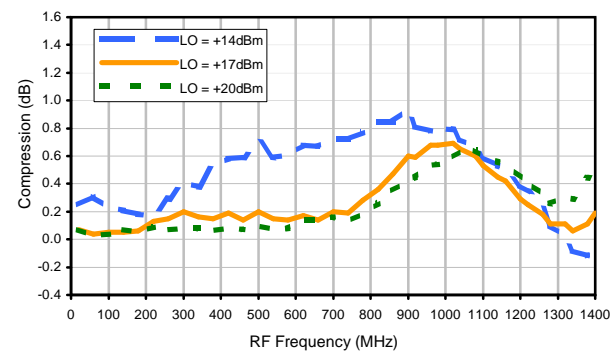
Conversion Loss vs. IF @ RF=1000.1MHz



IP3 Input



Compression @ RF IN=+14dBm



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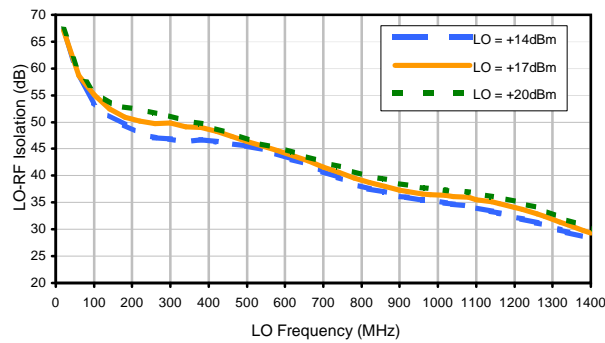


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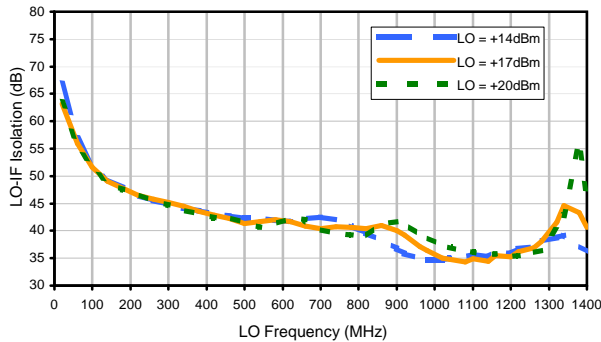


Typical Performance Curves

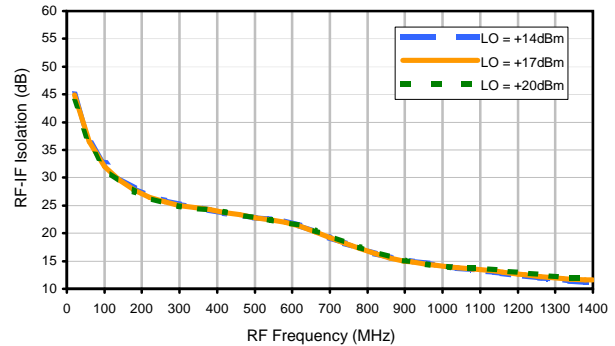
LO-RF Isolation



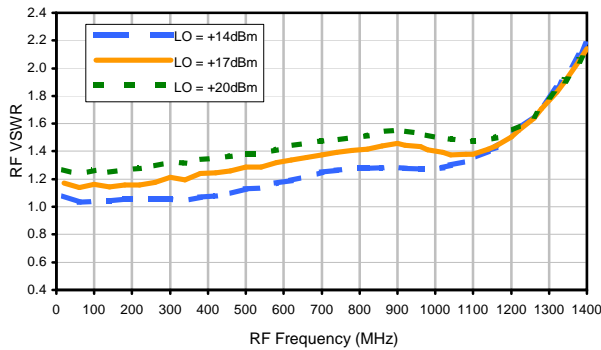
LO-IF Isolation



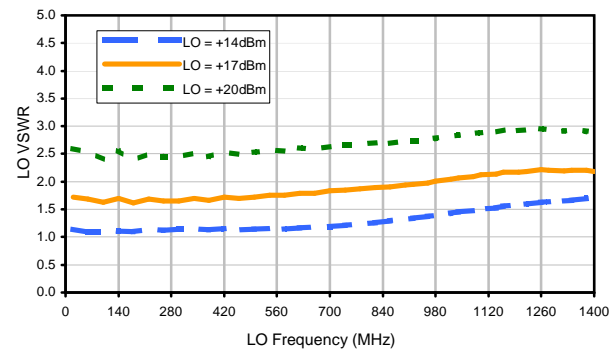
RF-IF Isolation



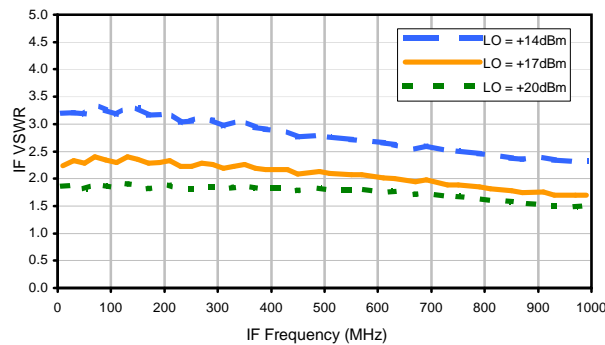
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

| | (-dBm) | (-dBc) | | | | | | | | | | |
|----|--------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0 | - | - | 16 | 20 | 24 | 26 | 27 | 44 | 25 | 51 | 31 | 55 |
| 1 | - | 16 | +0 | 31 | 14 | 37 | 25 | 38 | 31 | 44 | 32 | 58 |
| 2 | 96 | 60 | 61 | 63 | 57 | 73 | 56 | 59 | 53 | 63 | 56 | 85 |
| 3 | >100 | 65 | 60 | 69 | 59 | 69 | 52 | 71 | 51 | 71 | 57 | 76 |
| 4 | >100 | 79 | >92 | 82 | 91 | 78 | 82 | 84 | 79 | 78 | 84 | 89 |
| 5 | >100 | >92 | 80 | >92 | 81 | >92 | 78 | 87 | 80 | 86 | 79 | 91 |
| 6 | >100 | >92 | >92 | >92 | >92 | >92 | >92 | >92 | >92 | >92 | >92 | >92 |
| 7 | >100 | >92 | >92 | >92 | >92 | >92 | >92 | >92 | >92 | >92 | >92 | >92 |
| 8 | >100 | >92 | >92 | >92 | >92 | >92 | >92 | >92 | >92 | >92 | >92 | >92 |
| 9 | >100 | >92 | >92 | >92 | >92 | >92 | >92 | >92 | >92 | >92 | >92 | >92 |
| 10 | >100 | >92 | >92 | >92 | >92 | >92 | >92 | >92 | >92 | >92 | >92 | >92 |
| | RF CAL | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

LO HARMONICS ORDER

Test conditions: RF IN: 500.1 MHz; -1.00 dBm.
 LO IN: 530.01 MHz; +17.00 dBm
 IF OUT: 29.91 MHz; -8.27 dBm

RF HARMONICS ORDER

| | (-dBm) | (-dBc) | | | | | | | | | | |
|----|--------|--------|----|------|----|----|----|----|----|----|----|----|
| 0 | - | - | 26 | 30 | 35 | 36 | 41 | 58 | 46 | 63 | 42 | 68 |
| 1 | - | 16 | +0 | 31 | 14 | 41 | 23 | 40 | 38 | 51 | 40 | 60 |
| 2 | 78 | 52 | 55 | 58 | 53 | 54 | 53 | 59 | 52 | 64 | 48 | 73 |
| 3 | >100 | 48 | 40 | 53 | 44 | 49 | 37 | 57 | 43 | 65 | 45 | 61 |
| 4 | >100 | 73 | 67 | 84 | 69 | 70 | 64 | 68 | 62 | 64 | 64 | 69 |
| 5 | >100 | 64 | 59 | 62 | 54 | 63 | 53 | 60 | 49 | 62 | 49 | 65 |
| 6 | >100 | 82 | 80 | 93 | 76 | 86 | 84 | 79 | 71 | 80 | 69 | 73 |
| 7 | >100 | >102 | 78 | 82 | 74 | 74 | 69 | 73 | 64 | 68 | 62 | 68 |
| 8 | >100 | >102 | 89 | 88 | 92 | 81 | 87 | 82 | 84 | 79 | 79 | 80 |
| 9 | >100 | 98 | 94 | 94 | 82 | 82 | 76 | 77 | 74 | 77 | 76 | 74 |
| 10 | >100 | >102 | 98 | >102 | 98 | 97 | 90 | 89 | 87 | 89 | 86 | 90 |
| | RF CAL | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

LO HARMONICS ORDER

Test conditions: RF IN: 500.1 MHz; 9.00 dBm.
 LO IN: 530.01 MHz; +17.00 dBm
 IF OUT: 29.91 MHz; 1.8 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.

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