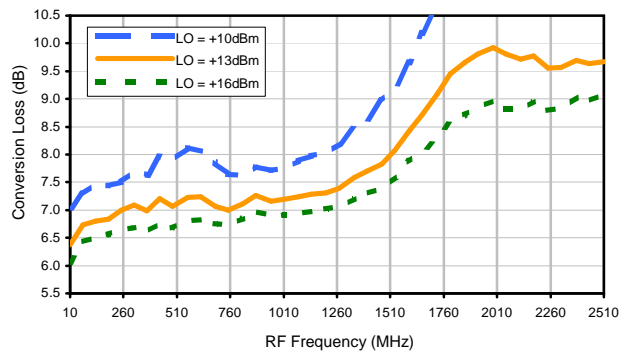
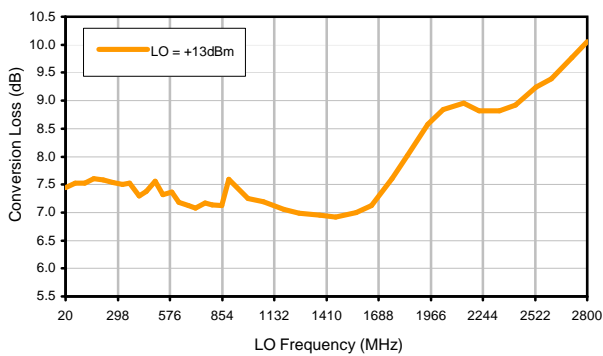


Typical Performance Curves

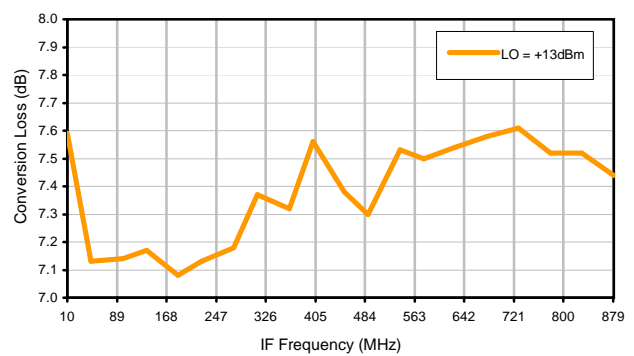
Conversion Loss @ IF=30 MHz



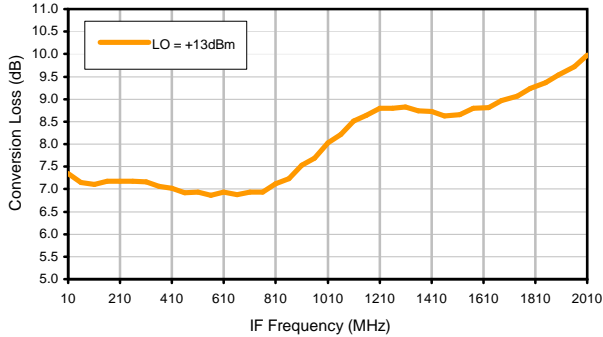
Conversion Loss vs. LO @ RF=900 MHz



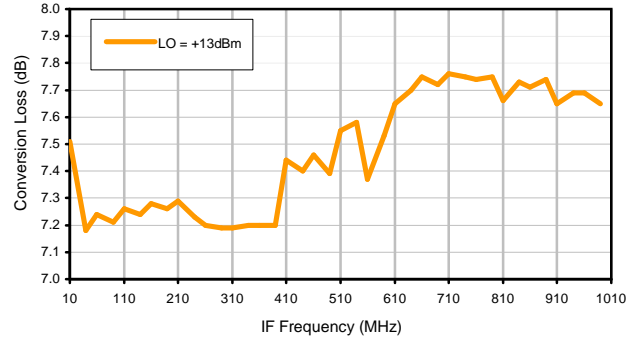
Conversion Loss vs. IF @ RF=900 MHz



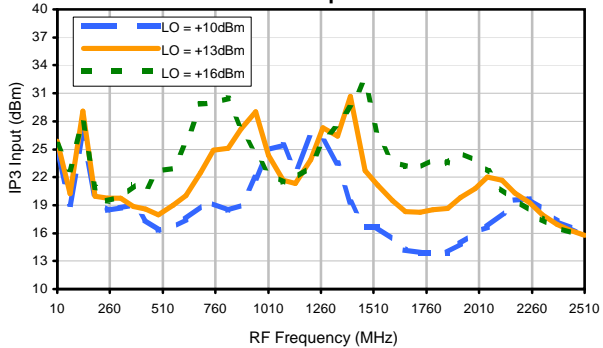
Conversion Loss vs. IF @ RF=789.9MHz



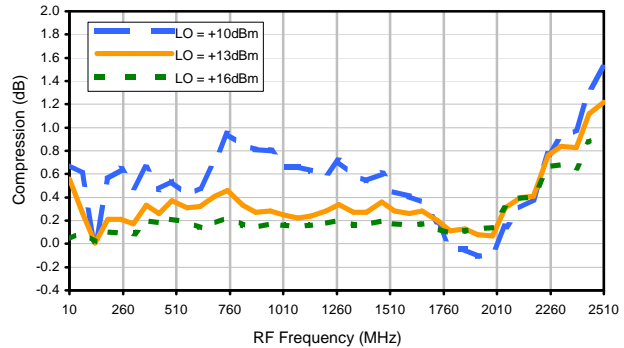
Conversion Loss vs. IF @ RF=1200 MHz



IP3 Input

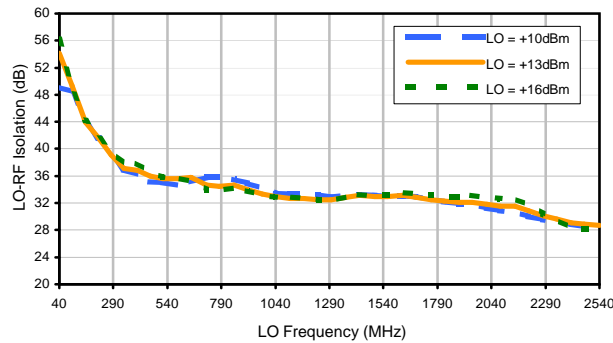


Compression @ RF IN = +9 dBm

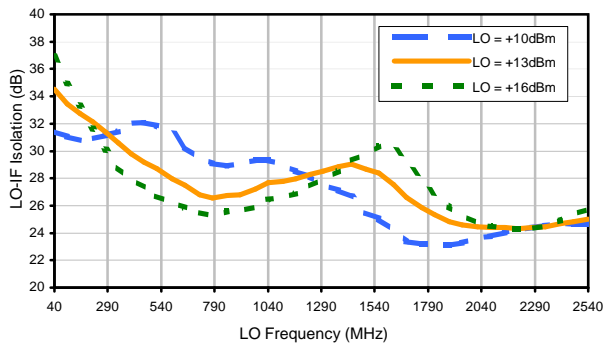


Typical Performance Curves

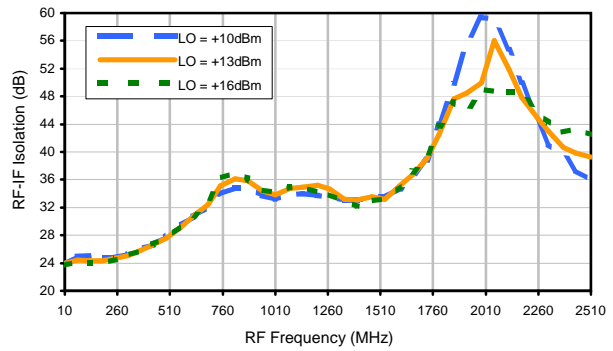
LO-RF Isolation



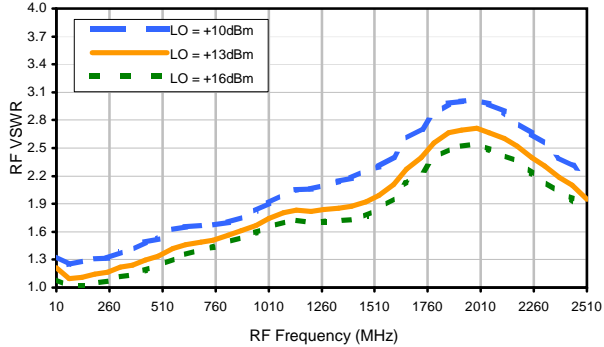
LO-IF Isolation



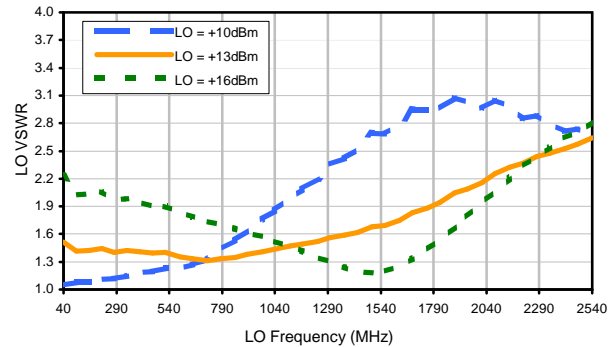
RF-IF Isolation



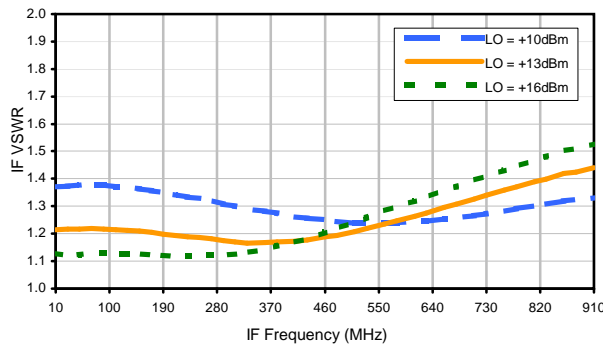
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

| | (-dBm) | (-dBc) | | | | | | | | | | |
|----|--------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0 | - | - | 1 | 15 | 26 | 21 | 21 | 37 | 27 | 47 | 30 | 52 |
| 1 | - | 27 | +0 | 32 | 15 | 37 | 21 | 41 | 42 | 52 | 46 | 44 |
| 2 | 73 | 54 | 53 | 53 | 53 | 61 | 56 | 55 | 68 | >77 | 59 | 60 |
| 3 | >90 | >77 | 64 | >77 | 64 | 74 | 64 | >77 | 64 | >77 | 76 | >77 |
| 4 | >90 | >77 | >77 | >77 | >77 | >77 | >77 | >77 | >77 | >77 | >77 | >77 |
| 5 | >90 | >77 | >77 | >77 | >77 | >77 | >77 | >77 | >77 | >77 | >77 | >77 |
| 6 | >90 | >77 | >77 | >77 | >77 | >77 | >77 | >77 | >77 | >77 | >77 | >77 |
| 7 | >90 | >77 | >77 | >77 | >77 | >77 | >77 | >77 | >77 | >77 | >77 | >77 |
| 8 | >90 | >77 | >77 | >77 | >77 | >77 | >77 | >77 | >77 | >77 | >77 | >77 |
| 9 | >90 | >77 | >77 | >77 | >77 | >77 | >77 | >77 | >77 | >77 | >77 | >77 |
| 10 | >90 | >77 | >77 | >77 | >77 | >77 | >77 | >77 | >77 | >77 | >77 | >77 |
| | RF CAL | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

LO HARMONICS ORDER

Test conditions: RF IN: 900 MHz; -6.00 dBm.
 LO IN: 930 MHz; +13.00 dBm
 IF OUT: 30 MHz; -13.32 dBm

RF HARMONICS ORDER

| | (-dBm) | (-dBc) | | | | | | | | | | |
|----|--------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0 | - | - | 11 | 25 | 34 | 33 | 31 | 52 | 40 | 65 | 47 | 63 |
| 1 | - | 27 | +0 | 32 | 15 | 40 | 23 | 45 | 45 | 54 | 66 | 55 |
| 2 | 53 | 46 | 44 | 44 | 46 | 50 | 48 | 48 | 56 | 79 | 52 | 65 |
| 3 | 84 | 56 | 43 | 65 | 51 | 57 | 49 | 58 | 48 | 59 | 70 | 71 |
| 4 | >90 | 69 | 63 | 67 | 70 | 65 | 66 | 79 | 60 | 67 | 69 | 73 |
| 5 | >90 | 82 | 65 | 69 | 58 | 65 | 59 | 64 | 62 | 63 | 63 | 78 |
| 6 | >90 | >87 | 84 | 83 | 74 | 77 | 73 | 74 | 73 | 71 | 70 | 76 |
| 7 | >90 | >87 | >87 | 86 | 80 | 82 | 76 | 78 | 77 | 75 | 77 | 75 |
| 8 | >90 | >87 | >87 | >87 | >87 | >87 | 86 | >87 | 82 | >87 | 86 | 83 |
| 9 | >90 | >87 | >87 | >87 | >87 | >87 | >87 | >87 | >87 | 85 | >87 | 84 |
| 10 | >90 | >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: 900 MHz; 4.00 dBm.
 LO IN: 930 MHz; +13.00 dBm
 IF OUT: 30 MHz; -3.36 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. X3
 ADE-10MH+
 101013
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