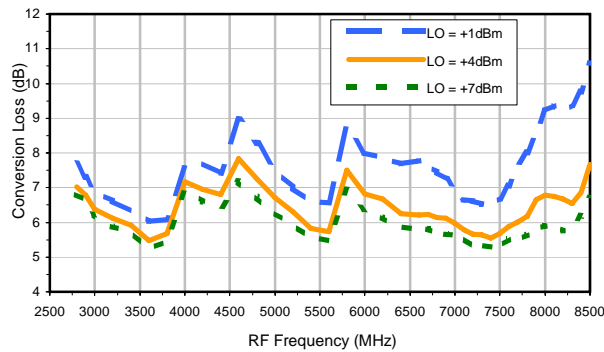
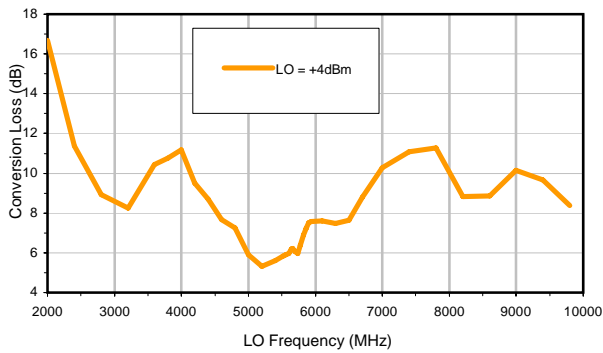


Typical Performance Curves

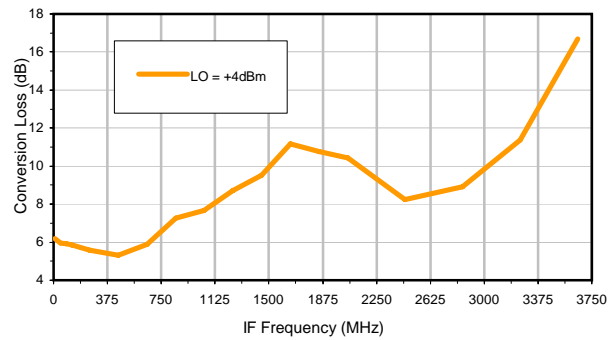
Conversion Loss @IF=30 MHz



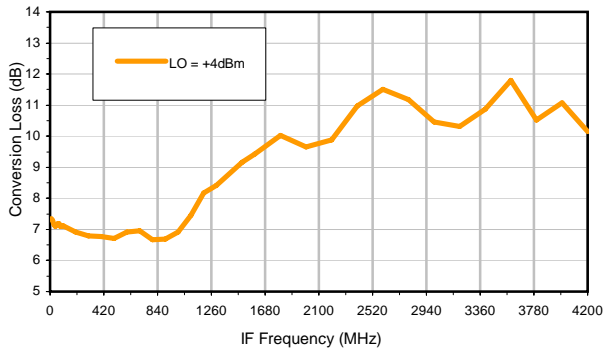
Conversion Loss vs. LO @ RF=5650.1 MHz



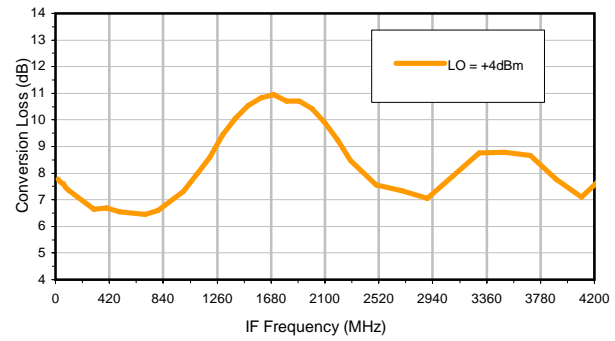
Conversion Loss vs. IF @ RF=5650.1 MHz



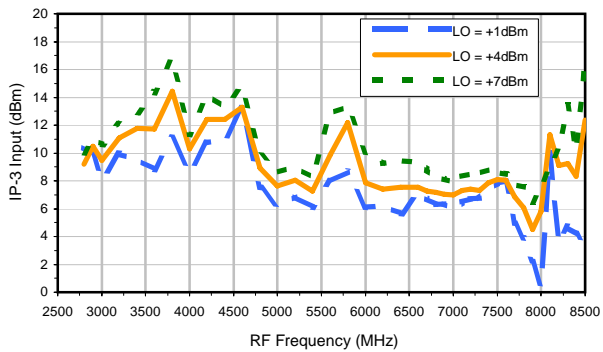
Conversion Loss vs. IF @ RF=2800.1 MHz



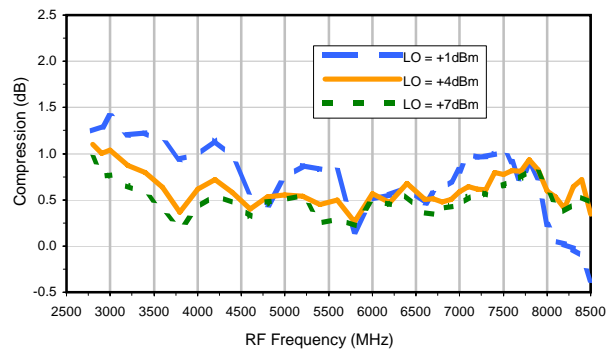
Conversion Loss vs. IF @ RF=8500.1 MHz



IP-3 Input



Compression @RF IN=+0 dBm



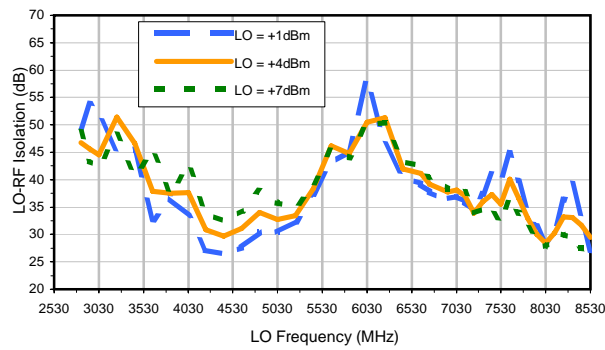
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 • Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site
 The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com



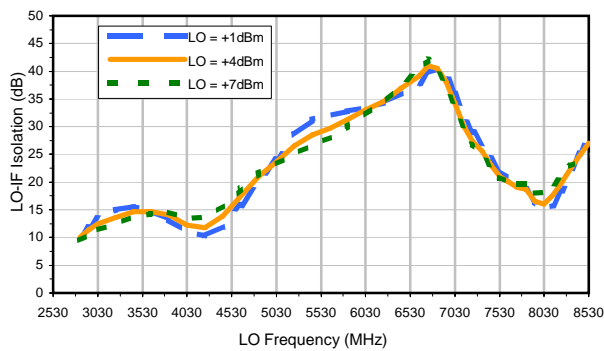
IF/RF MICROWAVE COMPONENTS

Typical Performance Curves

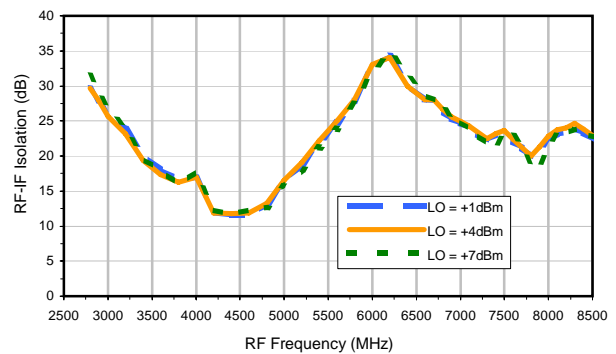
LO-RF Isolation



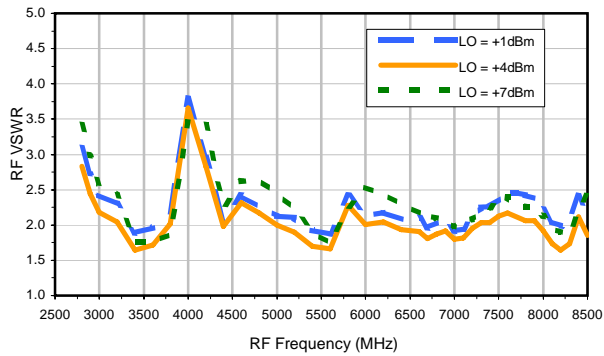
LO-IF Isolation



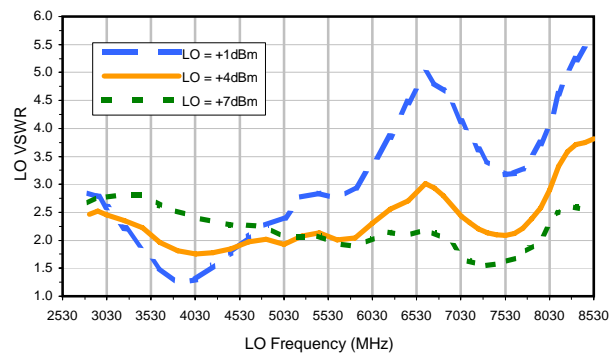
RF-IF Isolation



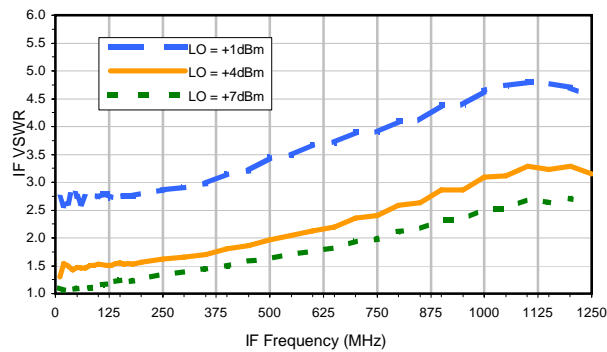
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

| RF HARMONICS ORDER | (-dBm) | (-dBc) | | | | | | | | | | |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | RF CAL | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 0 | --- | --- | 0.84 | 30.05 | 14.45 | 52.63 | --- | --- | --- | --- | --- | --- |
| 1 | --- | 17.20 | --- | 38.19 | 19.22 | 44.83 | 60.49 | --- | --- | --- | --- | --- |
| 2 | 124.21 | 55.12 | 74.27 | 61.25 | 71.35 | 64.41 | 61.14 | 83.43 | --- | --- | --- | --- |
| 3 | 127.57 | 80.52 | 67.06 | 89.10 | 78.59 | 78.22 | 64.60 | 90.41 | 103.20 | --- | --- | --- |
| 4 | 138.91 | 111.23 | 106.21 | 102.10 | 102.71 | 94.50 | 109.26 | 93.33 | 101.91 | 111.40 | --- | --- |
| 5 | --- | --- | 108.67 | 99.04 | 100.55 | 103.63 | 99.59 | 107.59 | 100.54 | 102.49 | 107.21 | --- |
| 6 | --- | --- | --- | 110.59 | 102.45 | 101.84 | 94.71 | 103.49 | 100.28 | 101.91 | 100.23 | 111.59 |
| 7 | --- | --- | --- | --- | 109.32 | 97.93 | 107.19 | 103.87 | 93.92 | 100.26 | 104.99 | 104.54 |
| 8 | --- | --- | --- | --- | --- | 110.06 | 99.66 | 101.07 | 101.47 | 98.51 | 102.88 | 107.37 |
| 9 | --- | --- | --- | --- | --- | --- | 107.99 | 96.08 | 105.55 | 107.25 | 103.10 | 107.70 |
| 10 | --- | --- | --- | --- | --- | --- | --- | 110.53 | 100.93 | 103.25 | 103.85 | 109.51 |

Test conditions:
 RF IN: 5650 MHz; -15 dBm.
 LO IN: 5680 MHz; +4 dBm
 IF OUT: 30 MHz; -20.68 dBm

| RF HARMONICS ORDER | (-dBm) | (-dBc) | | | | | | | | | | |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | RF CAL | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 0 | --- | --- | 10.86 | 39.87 | 25.24 | 64.76 | --- | --- | --- | --- | --- | --- |
| 1 | --- | 17.27 | --- | 39.69 | 19.53 | 47.20 | 61.91 | --- | --- | --- | --- | --- |
| 2 | 111.41 | 46.68 | 67.62 | 49.81 | 65.29 | 60.29 | 54.23 | 77.03 | --- | --- | --- | --- |
| 3 | 115.55 | 61.03 | 46.78 | 72.02 | 46.62 | 58.49 | 46.45 | 69.32 | 84.99 | --- | --- | --- |
| 4 | 128.43 | 92.17 | 82.54 | 72.71 | 78.87 | 64.64 | 84.63 | 65.72 | 73.92 | 92.52 | --- | --- |
| 5 | --- | --- | 106.48 | 94.35 | 78.84 | 85.85 | 61.63 | 80.82 | 63.11 | 85.57 | 97.16 | --- |
| 6 | --- | --- | --- | 108.42 | 99.18 | 87.95 | 94.89 | 77.16 | 100.66 | 78.88 | 99.02 | 109.24 |
| 7 | --- | --- | --- | --- | 108.33 | 97.59 | 86.08 | 103.42 | 76.88 | 96.15 | 80.52 | 97.43 |
| 8 | --- | --- | --- | --- | --- | 110.78 | 99.79 | 98.70 | 107.88 | 87.68 | 106.09 | 89.73 |
| 9 | --- | --- | --- | --- | --- | --- | 110.31 | 101.26 | 97.55 | 105.85 | 95.14 | 104.10 |
| 10 | --- | --- | --- | --- | --- | --- | --- | 110.80 | 105.13 | 105.03 | 107.09 | 100.56 |

Test conditions:
 RF IN: 5650 MHz; -5 dBm.
 LO IN: 5680 MHz; +4 dBm
 IF OUT: 30 MHz; -10.70 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 represents the Harmonics level of the RF Input Signal to the mixer