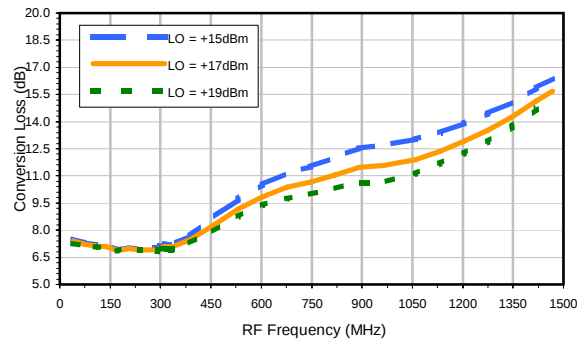
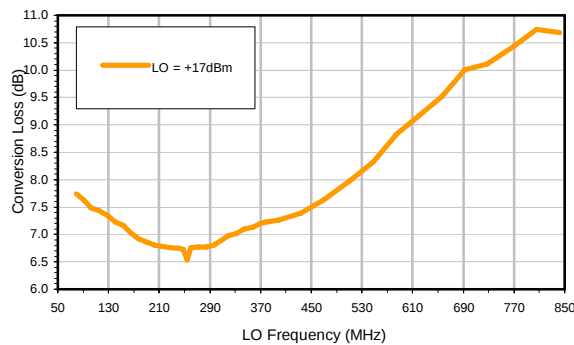


## Typical Performance Curves

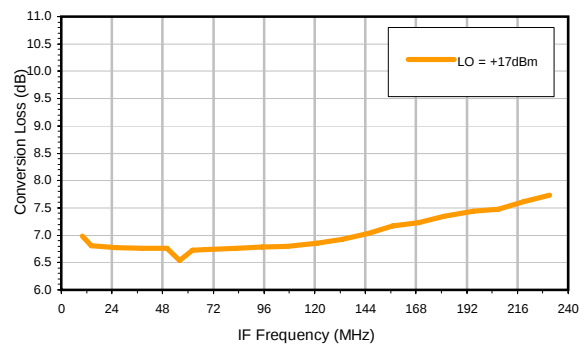
Conversion Loss @IF=30 MHz



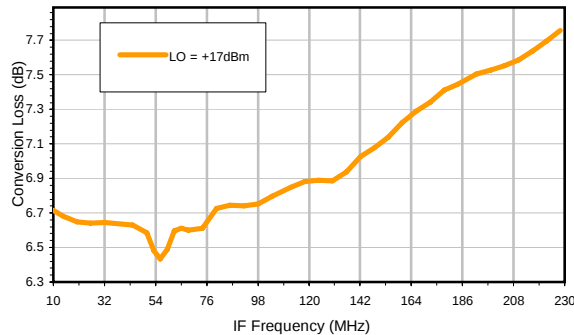
Conversion Loss vs. LO @ RF=310.1 MHz



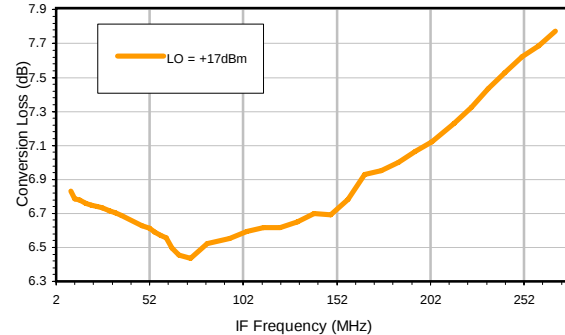
Conversion Loss vs. IF @ RF=310.1 MHz



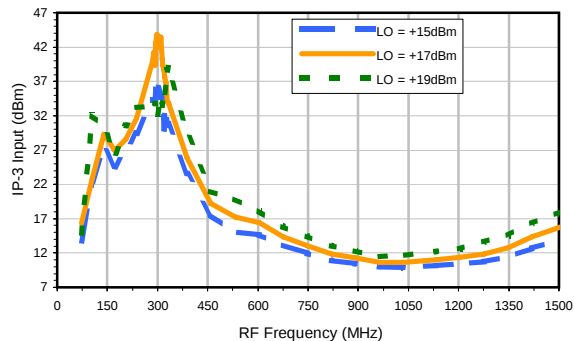
Conversion Loss vs. IF @ RF=285.1 MHz



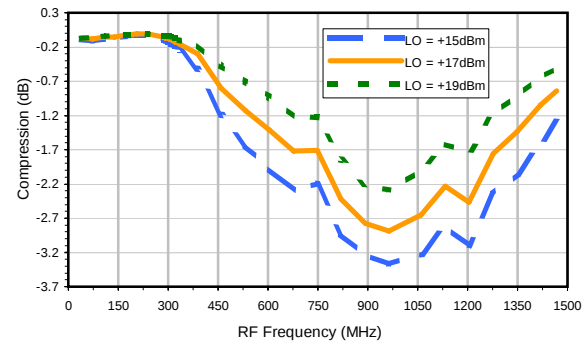
Conversion Loss vs. IF @ RF=335 MHz



IP-3 Input

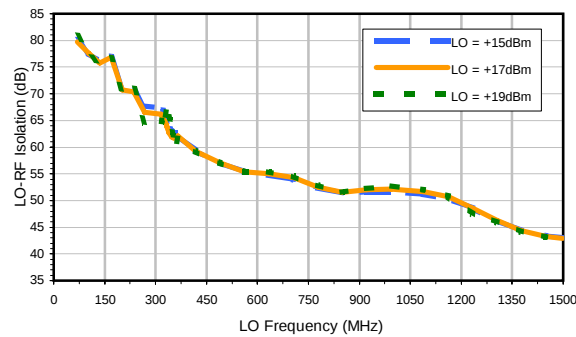


Compression @RF IN=+14 dBm

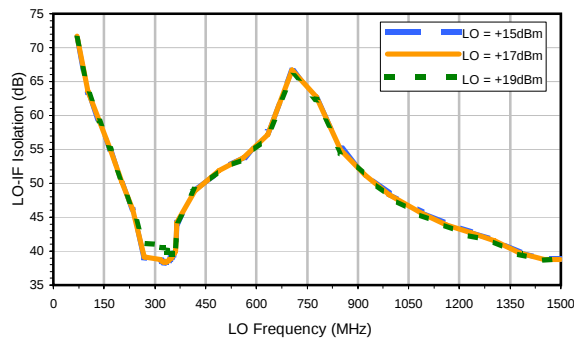


## Typical Performance Curves

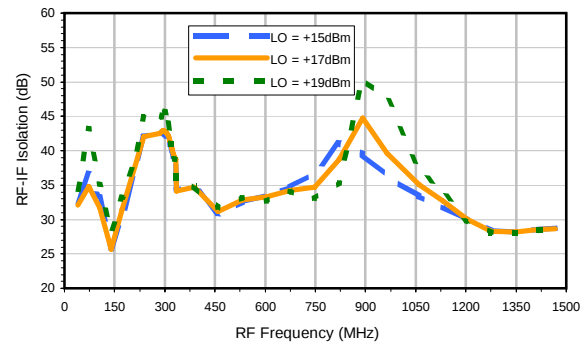
LO-RF Isolation



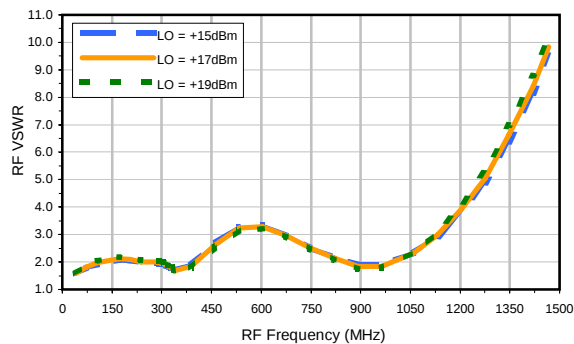
LO-IF Isolation



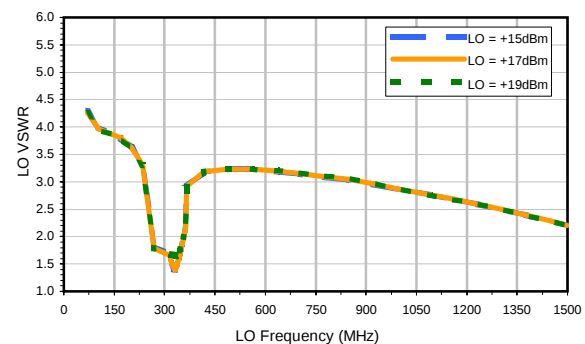
RF-IF Isolation



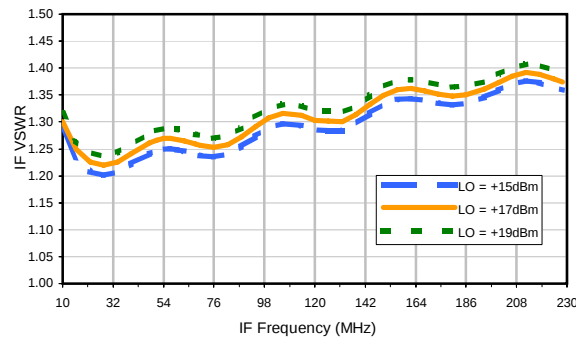
RF VSWR



LO VSWR



IF VSWR



## Harmonics Tables

RF HARMONICS ORDER

|    | (-dBm) | (-dBc) |        |        |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0  | ---    | --     | 15.43  | 36.53  | 35.02  | 42.38  | 36.13  | 36.36  | 51.84  | 70.33  | 67.70  | 68.69  |
| 1  | ---    | 35.84  | --     | 33.84  | 11.63  | 36.66  | 18.15  | 36.77  | 33.75  | 49.07  | 53.59  | 53.47  |
| 2  | 104.99 | 78.15  | 67.21  | 73.04  | 69.65  | 71.60  | 76.25  | 76.21  | 71.73  | 78.10  | 81.13  | 91.47  |
| 3  | 106.93 | 94.19  | 79.12  | 96.26  | 72.29  | 102.24 | 67.46  | 90.54  | 71.19  | 91.55  | 76.33  | 91.76  |
| 4  | 127.78 | 122.11 | 116.12 | 117.22 | 114.07 | 110.55 | 102.53 | 108.65 | 99.34  | 112.10 | 103.06 | 111.25 |
| 5  | 128.53 | 119.33 | 104.84 | 116.77 | 98.42  | 114.07 | 97.58  | 113.46 | 101.53 | 106.32 | 96.46  | 112.04 |
| 6  | 127.39 | 126.22 | 125.64 | 124.28 | 114.05 | 122.11 | 106.72 | 116.85 | 111.94 | 112.88 | 108.59 | 116.57 |
| 7  | 128.77 | 123.11 | 124.99 | 124.66 | 115.69 | 120.86 | 110.85 | 116.99 | 106.85 | 112.84 | 113.10 | 114.70 |
| 8  | 126.51 | 123.53 | 124.98 | 123.19 | 124.83 | 124.63 | 125.34 | 123.12 | 116.15 | 116.53 | 112.99 | 113.67 |
| 9  | 127.15 | 122.82 | 122.09 | 125.24 | 122.34 | 125.14 | 124.47 | 122.79 | 119.60 | 118.77 | 111.76 | 109.83 |
| 10 | 127.34 | 124.53 | 124.55 | 123.58 | 124.59 | 123.58 | 121.87 | 123.56 | 121.55 | 123.06 | 122.24 | 115.76 |
|    | RF CAL | 0      | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     |

## LO HARMONICS ORDER

Test conditions: RF IN: 310 MHz; 0 dBm.  
 LO IN: 252 MHz; +17.00 dBm  
 IF OUT: 58 MHz; -6.75 dBm

RF HARMONICS ORDER

|    | (-dBm) | (-dBc) |        |        |        |        |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0  | ---    | --     | 25.48  | 47.70  | 46.14  | 54.35  | 46.57  | 47.22  | 64.15  | 80.93  | 84.72  | 87.00  |
| 1  | ---    | 36.44  | --     | 34.41  | 11.72  | 37.26  | 18.64  | 37.00  | 33.75  | 49.72  | 52.02  | 54.28  |
| 2  | 93.70  | 65.15  | 55.92  | 62.65  | 57.74  | 61.16  | 63.89  | 66.04  | 61.13  | 71.43  | 70.85  | 85.87  |
| 3  | 97.14  | 78.29  | 62.61  | 73.92  | 55.80  | 68.18  | 48.98  | 67.38  | 52.17  | 67.13  | 56.85  | 71.60  |
| 4  | 118.78 | 90.23  | 82.79  | 93.27  | 80.18  | 84.44  | 80.31  | 84.78  | 84.34  | 92.08  | 83.77  | 84.99  |
| 5  | 119.28 | 97.53  | 84.87  | 89.31  | 79.59  | 88.97  | 79.24  | 85.97  | 81.29  | 87.42  | 75.57  | 89.00  |
| 6  | 118.78 | 119.39 | 112.24 | 114.68 | 98.46  | 116.31 | 94.51  | 109.58 | 95.62  | 103.31 | 102.16 | 105.42 |
| 7  | 118.30 | 120.60 | 113.87 | 119.87 | 105.23 | 107.61 | 94.60  | 105.39 | 91.64  | 102.58 | 97.02  | 102.33 |
| 8  | 117.99 | 118.65 | 120.85 | 120.96 | 118.87 | 121.52 | 113.83 | 120.69 | 111.01 | 118.57 | 107.97 | 116.53 |
| 9  | 116.47 | 118.41 | 120.69 | 120.95 | 121.32 | 119.58 | 119.26 | 120.08 | 113.85 | 120.01 | 113.25 | 118.38 |
| 10 | 116.10 | 119.37 | 120.59 | 119.93 | 119.38 | 120.04 | 120.58 | 121.31 | 120.20 | 120.36 | 120.81 | 119.51 |
|    | RF CAL | 0      | 1      | 2      | 3      | 4      | 5      | 6      | 7      | 8      | 9      | 10     |

## LO HARMONICS ORDER

Test conditions: RF IN: 310 MHz; +10 dBm.  
 LO IN: 252 MHz; +17.00 dBm  
 IF OUT: 58 MHz; 3.26 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