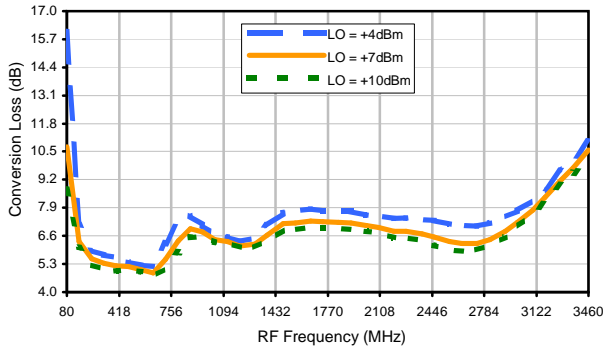


# Frequency Mixer

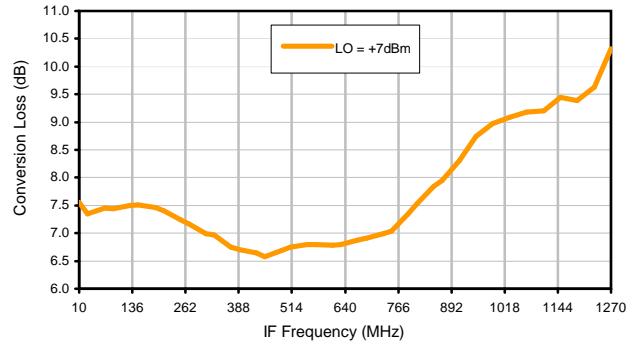
# RMS-30+

## Typical Performance Curves

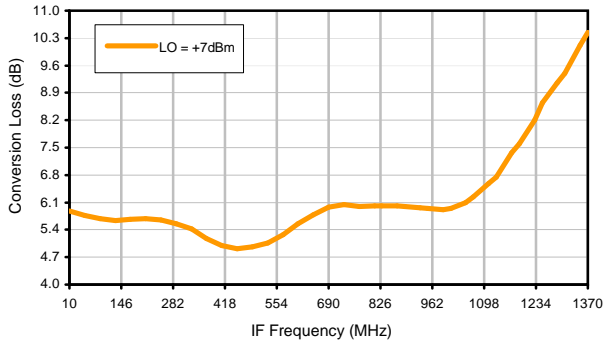
Conversion Loss @ IF=30MHz



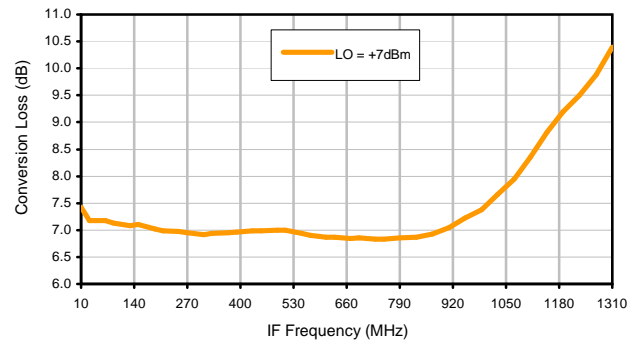
Conversion Loss vs. IF @ RF=1510.1MHz



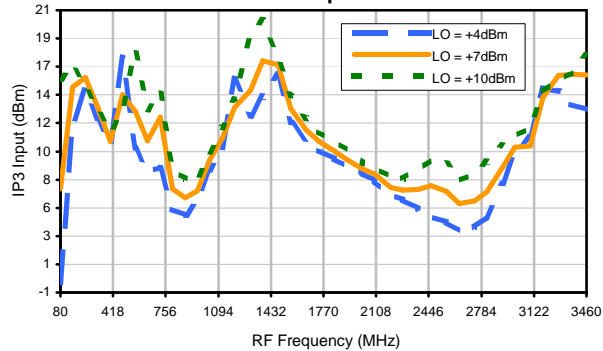
Conversion Loss vs. IF @ RF=189.9MHz



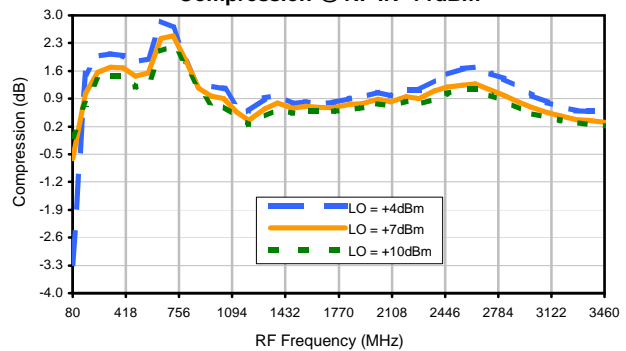
Conversion Loss vs. IF @ RF=3010.1MHz



IP3 Input

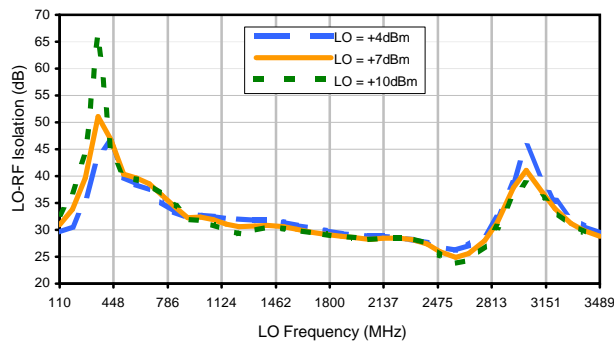


Compression @ RF IN=+1dBm

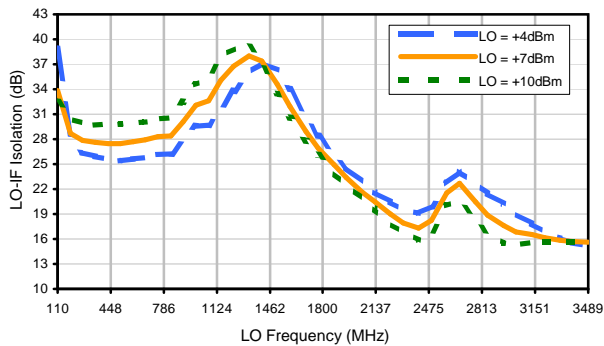


## Typical Performance Curves

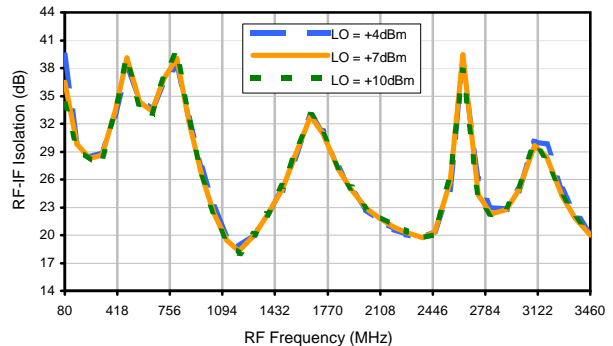
LO-RF Isolation



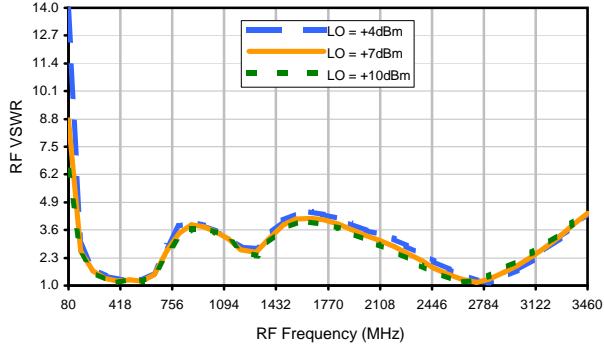
LO-IF Isolation



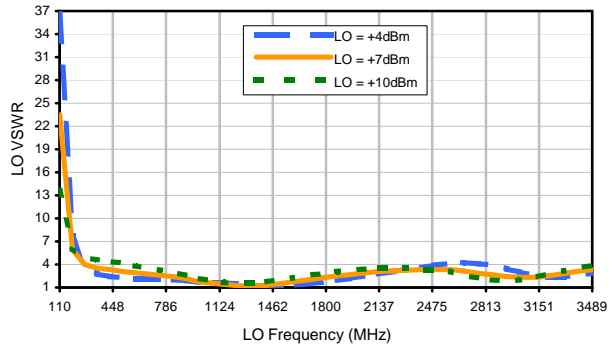
RF-IF Isolation



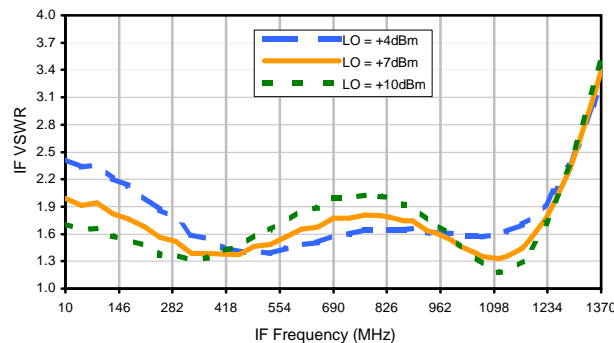
RF VSWR



LO VSWR



IF VSWR



## Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	2	17	22	33	12	46	22	46	38	54
1	-	23	+0	41	22	42	33	48	45	49	48	55
2	85	53	>68	61	65	61	67	63	52	>68	56	>68
3	>90	>68	67	>68	66	>68	>68	>68	>68	>68	>68	>68
4	>90	>68	>68	>68	>68	>68	>68	>68	>68	>68	>68	>68
5	>90	>68	>68	>68	>68	>68	>68	>68	>68	>68	>68	>68
6	>90	>68	>68	>68	>68	>68	>68	>68	>68	>68	>68	>68
7	>90	>68	>68	>68	>68	>68	>68	>68	>68	>68	>68	>68
8	>90	>68	>68	>68	>68	>68	>68	>68	>68	>68	>68	>68
9	>90	>68	>68	>68	>68	>68	>68	>68	>68	>68	>68	>68
10	>90	>68	>68	>68	>68	>68	>68	>68	>68	>68	>68	>68
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

Test conditions: RF IN: 1600 MHz; -14.00 dBm.  
 LO IN: 1630 MHz; +7.00 dBm  
 IF OUT: 30 MHz; -21.61 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	12	27	32	40	23	54	35	58	53	72
1	-	23	+0	42	22	44	34	52	48	54	53	61
2	65	45	57	50	57	55	61	64	46	65	52	65
3	>90	57	46	56	46	71	58	60	57	62	63	65
4	>90	71	>78	65	73	61	>78	65	78	67	65	74
5	>90	>78	>78	>78	70	72	64	>78	73	>78	72	76
6	>90	>78	>78	>78	>78	77	>78	75	>78	>78	>78	78
7	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
8	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
9	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
10	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 1600 MHz; -4.00 dBm.  
 LO IN: 1630 MHz; +7.00 dBm  
 IF OUT: 30 MHz; -11.52 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.