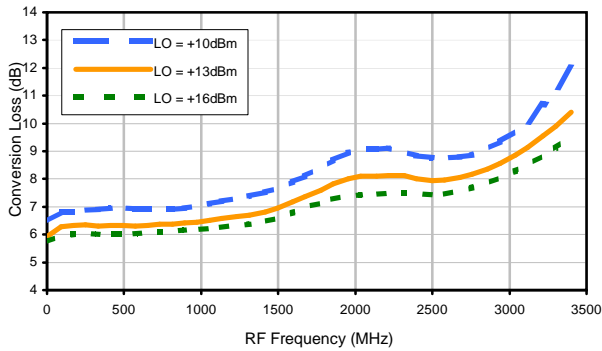


Frequency Mixer

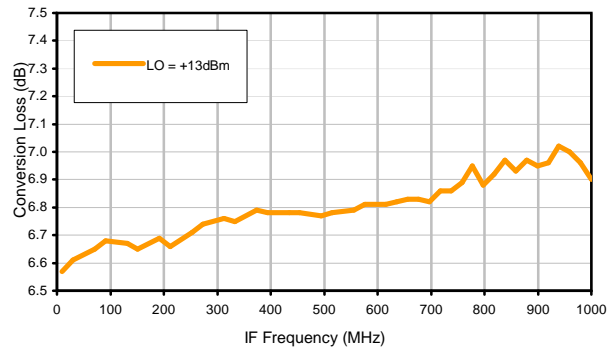
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Typical Performance Curves

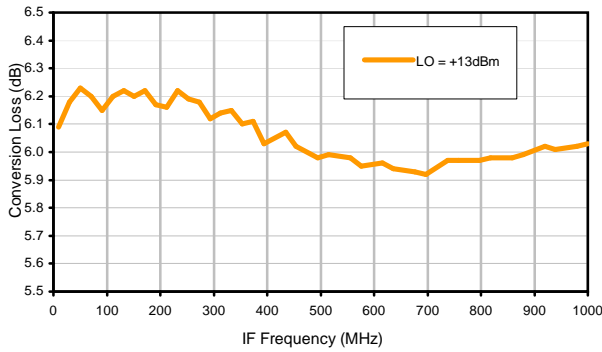
Conversion Loss @ IF=30MHz



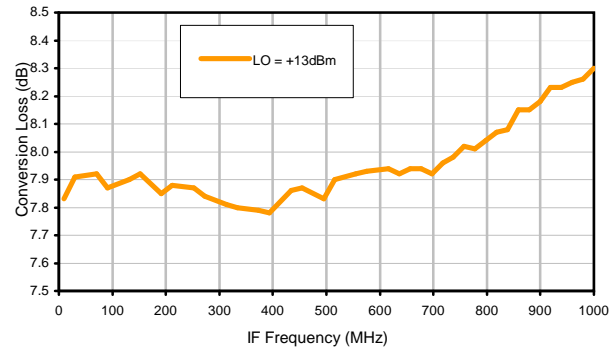
Conversion Loss vs. IF @ RF=1250.1MHz



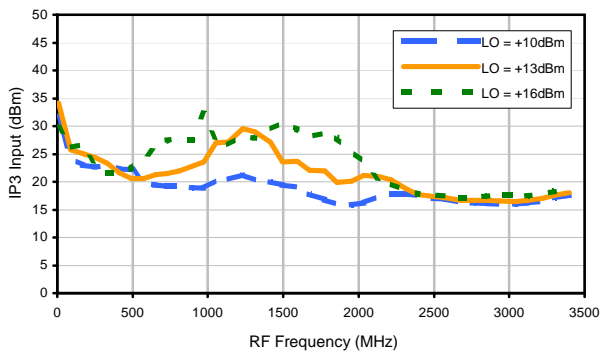
Conversion Loss vs. IF @ RF=40.1MHz



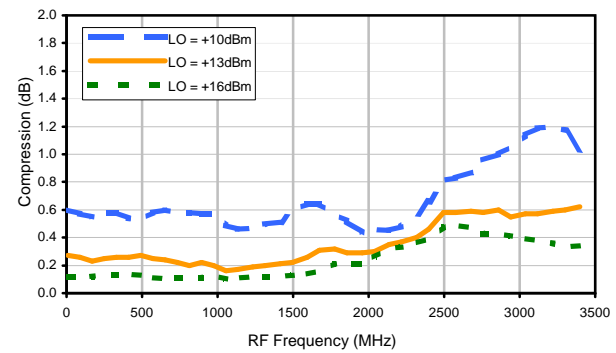
Conversion Loss vs. IF @ RF=2500.1MHz



IP3 Input

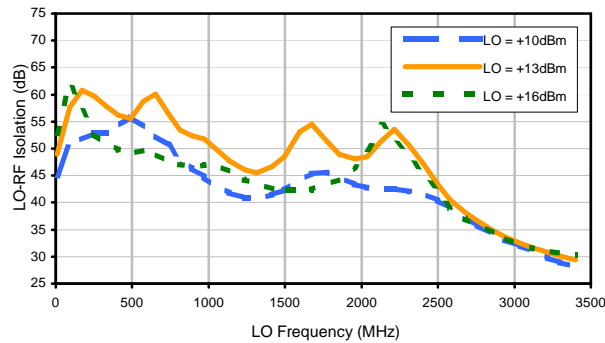


Compression @ RF IN=+9dBm

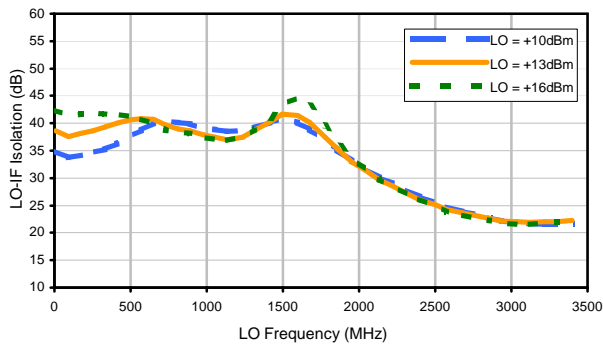


Typical Performance Curves

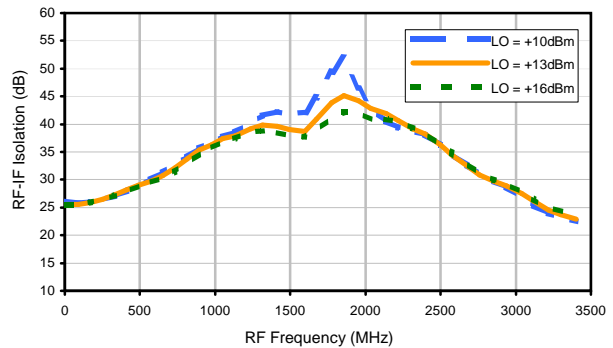
LO-RF Isolation



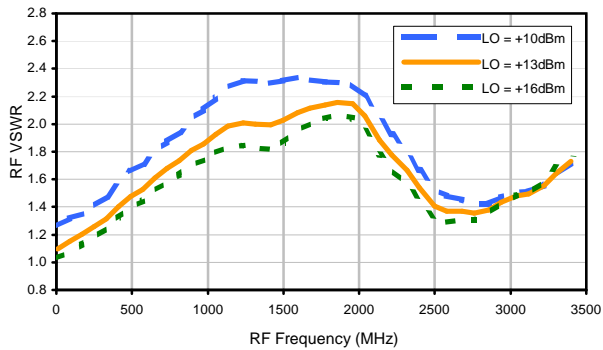
LO-IF Isolation



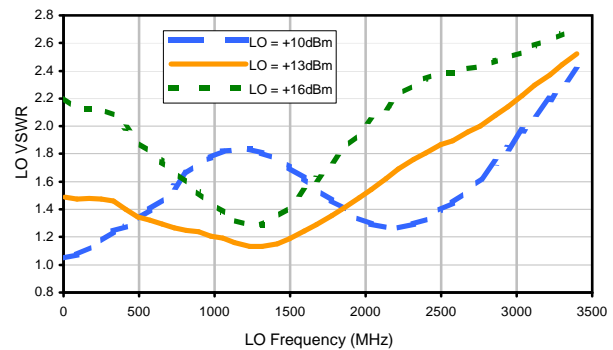
RF-IF Isolation



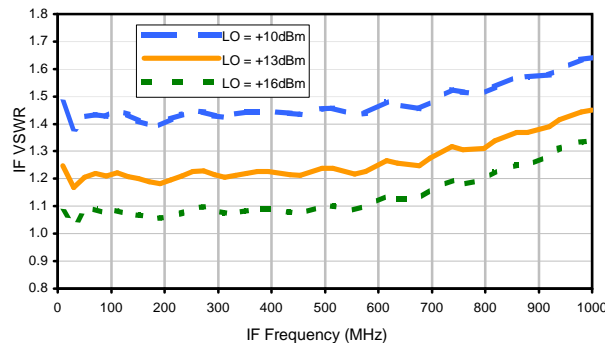
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	24	20	29	30	34	44	45	54	59	62
1	-	32	+0	32	15	50	28	52	50	47	45	58
2	77	49	38	56	45	49	52	59	56	62	59	62
3	>100	65	55	55	55	58	50	71	56	63	56	60
4	>100	79	69	62	66	61	67	62	69	65	71	72
5	>100	81	75	73	63	72	62	73	63	90	67	85
6	>100	86	93	85	88	81	82	78	80	81	90	90
7	>100	89	93	93	92	88	93	86	96	88	87	91
8	>100	>97	>97	>97	>97	>97	96	>97	>97	>97	89	92
9	>100	>97	>97	>97	>97	>97	>97	>97	>97	96	>97	>97
10	>100	>97	>97	>97	>97	>97	>97	>97	>97	>97	>97	>97
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1270.1 MHz; 4.00 dBm.
 LO IN: 1300.01 MHz; +13.00 dBm
 IF OUT: 29.91 MHz; -3.02 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	12	11	18	19	22	32	31	41	37	46
1	-	33	+0	34	15	44	27	47	51	42	42	53
2	89	57	48	59	53	55	62	62	61	66	63	66
3	>100	77	75	77	68	75	65	85	69	>87	70	86
4	>100	>87	>87	>87	>87	81	>87	>87	>87	>87	>87	>87
5	>100	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
6	>100	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
7	>100	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
8	>100	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
9	>100	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
10	>100	>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: 1270.1 MHz; -6.00 dBm.
 LO IN: 1300.01 MHz; +13.00 dBm
 IF OUT: 29.91 MHz; -13.06 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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