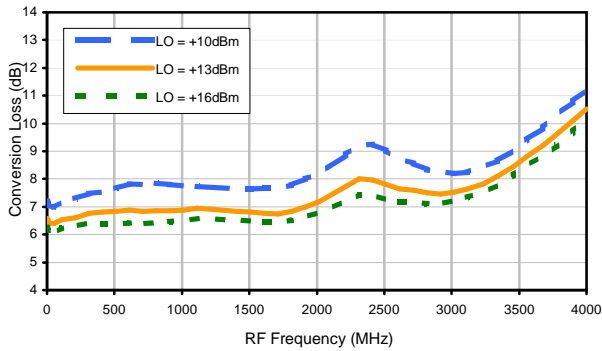


Frequency Mixer

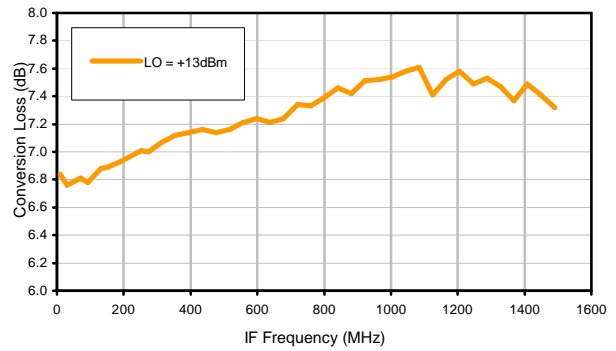
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Typical Performance Curves

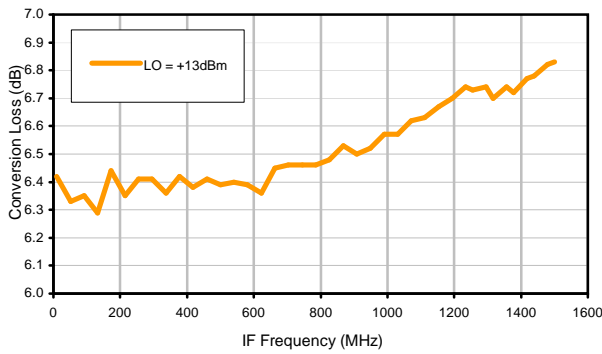
Conversion Loss @ IF=30MHz



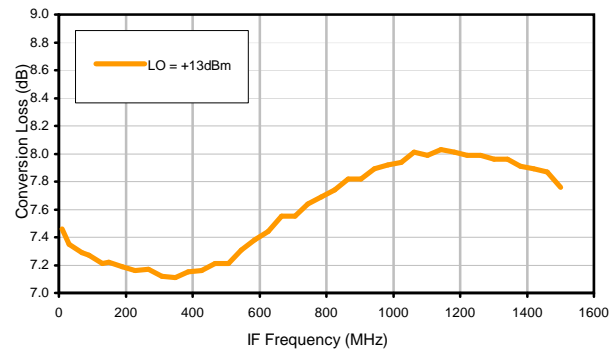
Conversion Loss vs. IF @ RF=1500.1MHz



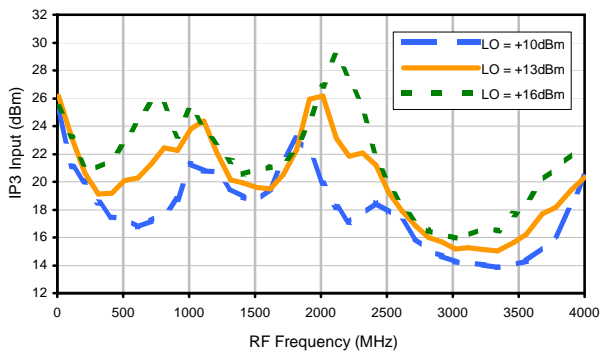
Conversion Loss vs. IF @ RF=10.1MHz



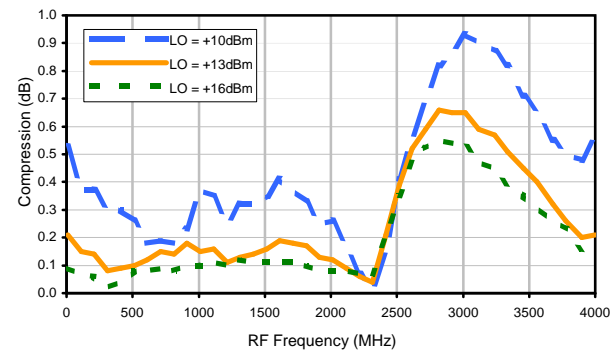
Conversion Loss vs. IF @ RF=3000.1MHz



IP3 Input

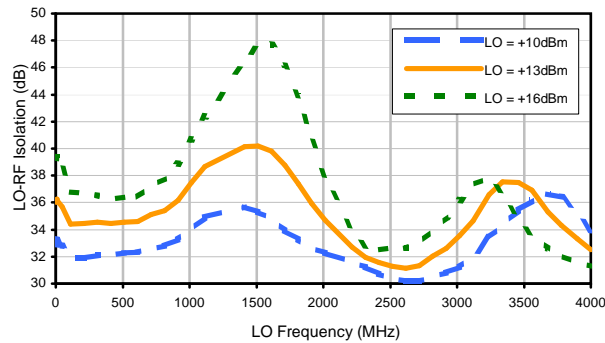


Compression @ RF IN=+9dBm

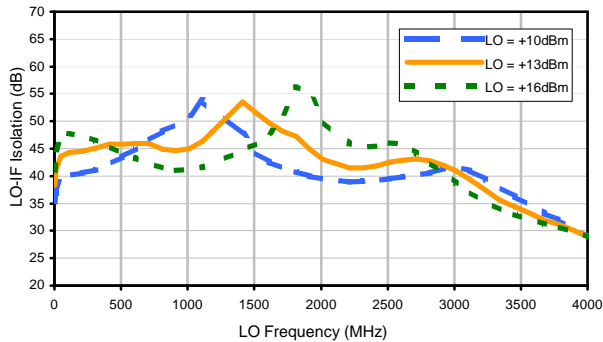


Typical Performance Curves

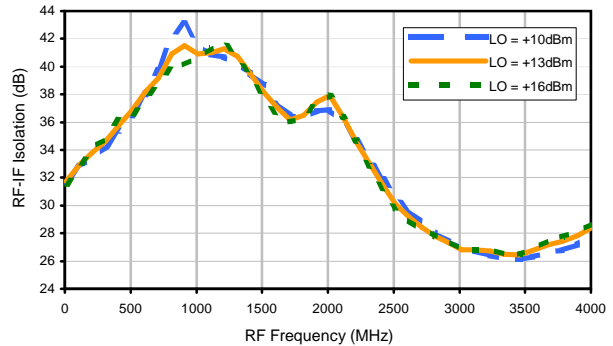
LO-RF Isolation



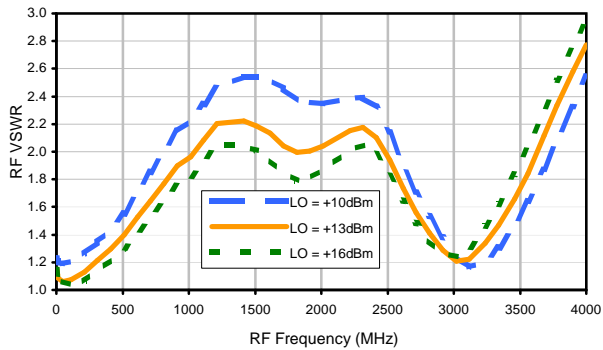
LO-IF Isolation



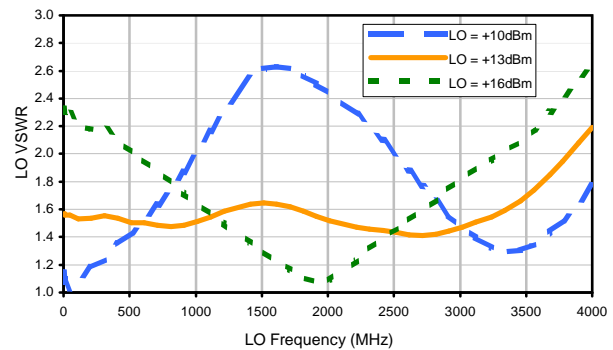
RF-IF Isolation



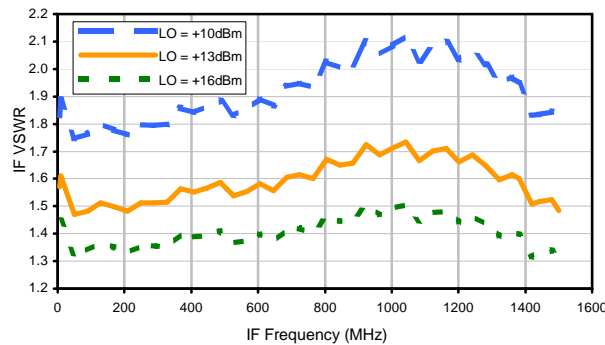
RF VSWR



LO VSWR



IF VSWR



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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	11	13	21	18	30	30	28	44	43	44
1	-	53	+0	44	16	48	28	42	44	42	46	50
2	>100	49	56	54	61	53	75	58	61	68	64	71
3	>100	>87	62	>87	66	80	64	>87	72	74	74	78
4	>100	>87	>87	>87	>87	>87	>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: 1500.1 MHz; -6.00 dBm.
 LO IN: 1530.01 MHz; +13.00 dBm
 IF OUT: 29.91 MHz; -13.12 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	21	23	32	29	39	41	39	54	64	75
1	-	51	+0	43	16	47	29	44	44	45	51	54
2	>100	40	46	45	52	44	67	53	57	68	59	71
3	>100	70	42	69	48	66	47	78	58	58	59	60
4	>100	76	74	62	74	65	72	64	80	68	69	72
5	>100	83	77	82	63	85	64	77	64	87	68	73
6	>100	>97	90	88	89	76	90	75	84	72	>97	78
7	>100	93	93	90	91	94	83	93	84	87	81	91
8	>100	>97	>97	>97	>97	>97	>97	90	>97	92	>97	87
9	>100	>97	>97	>97	>97	>97	>97	>97	>97	>97	95	>97
10	>100	>97	>97	>97	>97	>97	>97	>97	>97	>97	>97	96
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1500.1 MHz; 4.00 dBm.
 LO IN: 1530.01 MHz; +13.00 dBm
 IF OUT: 29.91 MHz; -3.19 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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