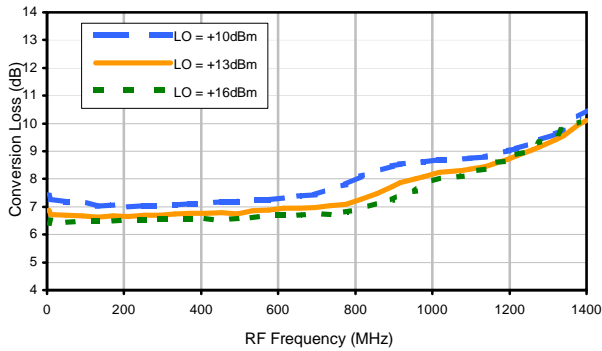


Frequency Mixer

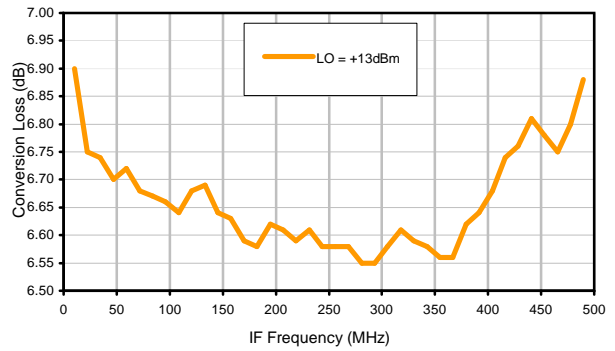
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Typical Performance Curves

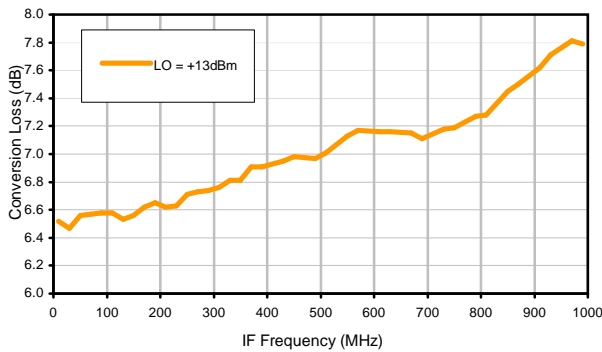
Conversion Loss @ IF=30MHz



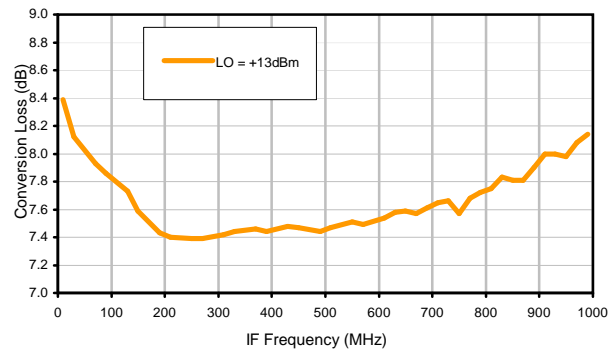
Conversion Loss vs. IF @ RF=500.1MHz



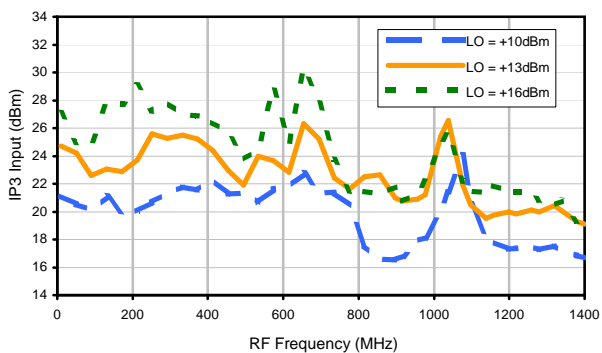
Conversion Loss vs. IF @ RF=10.1MHz



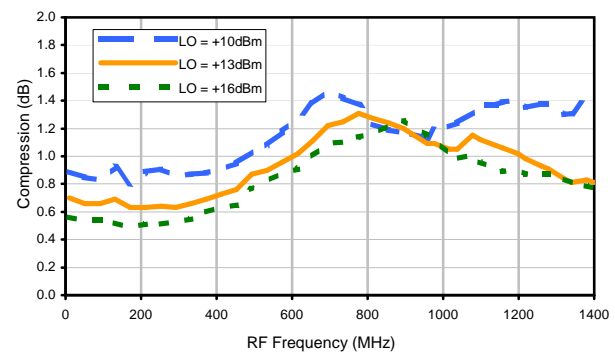
Conversion Loss vs. IF @ RF=1000.1MHz



IP3 Input

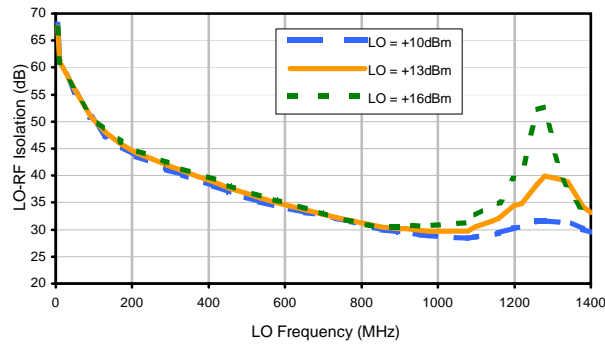


Compression @ RF IN=+9dBm

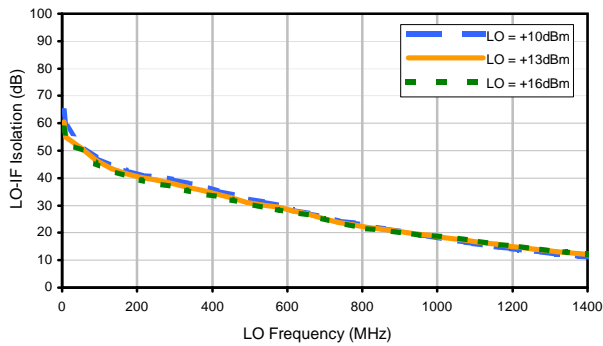


Typical Performance Curves

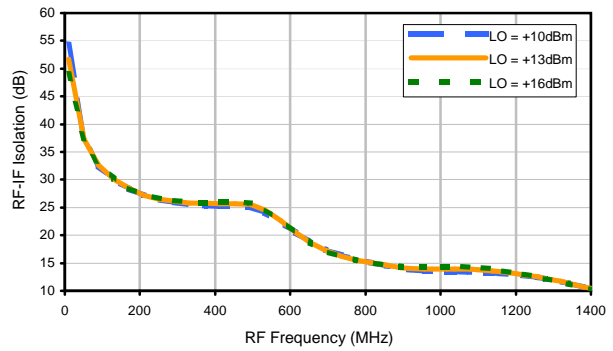
LO-RF Isolation



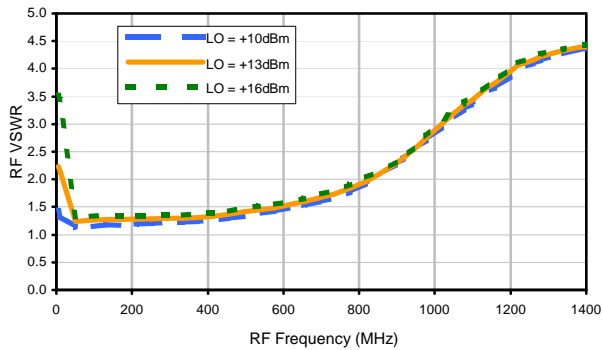
LO-IF Isolation



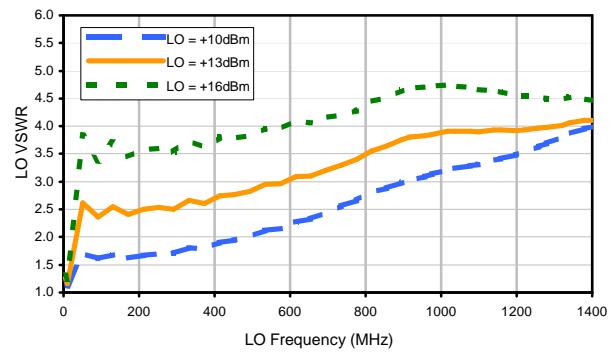
RF-IF Isolation



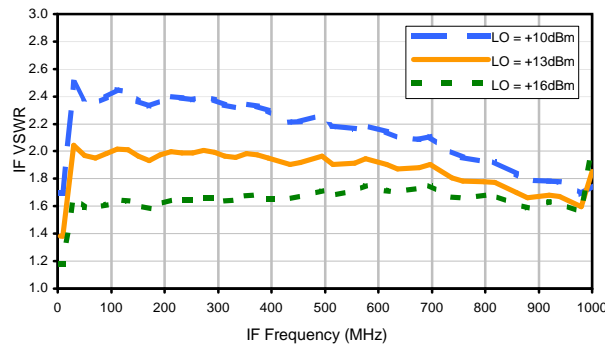
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	4	21	9	41	23	26	19	32	35	43
1	-	18	+0	32	13	32	28	37	40	37	65	43
2	>100	58	44	60	45	58	47	74	57	65	54	54
3	>100	69	78	69	64	67	60	69	71	72	63	85
4	>100	>87	87	>87	86	>87	81	85	>87	>87	85	>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: 500.1 MHz; -6.00 dBm.
 LO IN: 530.01 MHz; +13.00 dBm
 IF OUT: 29.91 MHz; -12.86 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	14	32	21	57	35	38	33	51	50	74
1	-	19	+0	30	13	36	29	43	41	42	57	51
2	>100	50	37	50	36	55	40	60	52	65	46	53
3	>100	50	48	65	48	53	45	52	58	54	51	54
4	>100	78	62	74	59	67	63	61	56	78	69	64
5	>100	91	75	77	57	63	54	62	53	63	62	72
6	>100	93	80	97	81	74	71	69	64	68	67	77
7	>100	78	83	86	81	78	75	82	75	93	95	86
8	>100	94	>97	>97	>97	>97	92	89	87	88	82	81
9	>100	>97	>97	>97	>97	95	91	86	83	88	83	92
10	>100	>97	>97	>97	>97	>97	>97	>97	94	>97	91	95
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 500.1 MHz; 4.00 dBm.
 LO IN: 530.01 MHz; +13.00 dBm
 IF OUT: 29.91 MHz; -2.79 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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