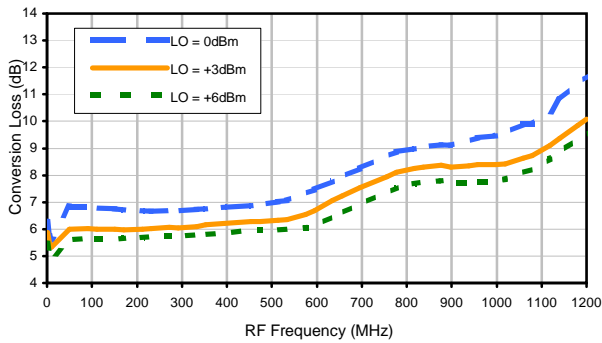


Frequency Mixer

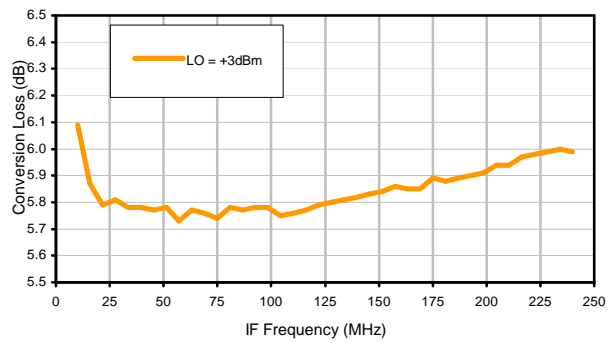
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Typical Performance Curves

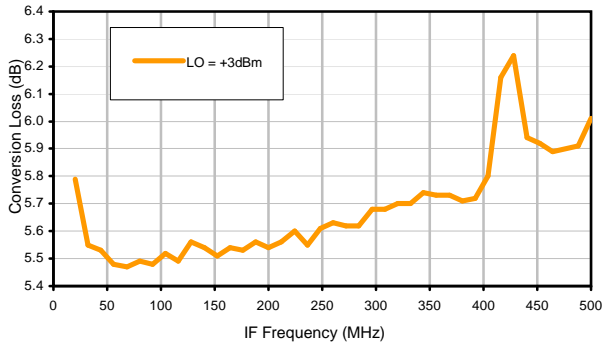
Conversion Loss @ IF=30MHz



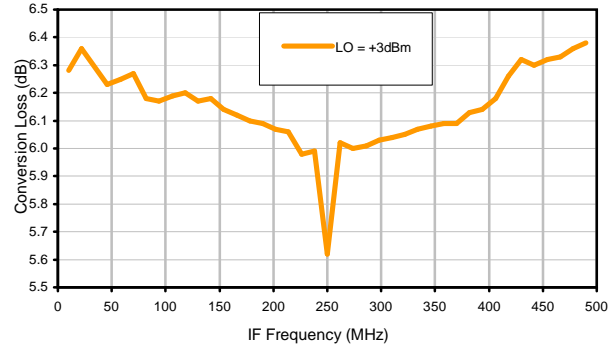
Conversion Loss vs. IF @ RF=250.1MHz



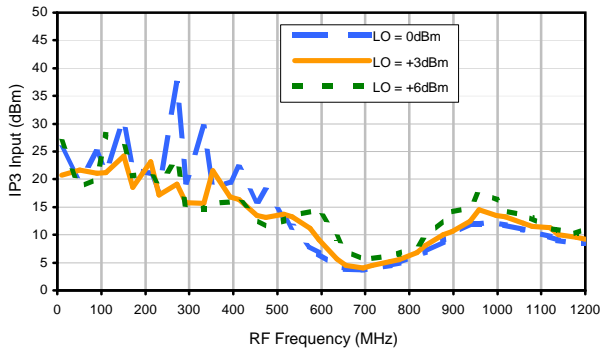
Conversion Loss vs. IF @ RF=10.1MHz



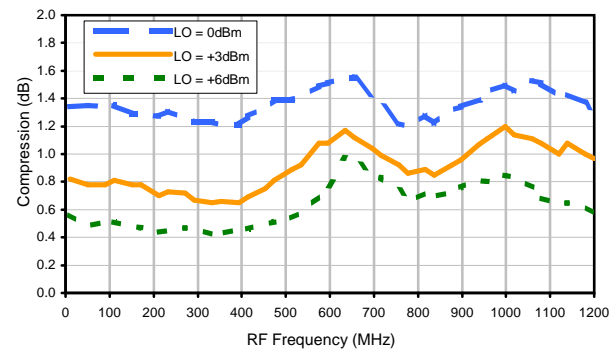
Conversion Loss vs. IF @ RF=500.1MHz



IP3 Input



Compression @ RF IN=0dBm



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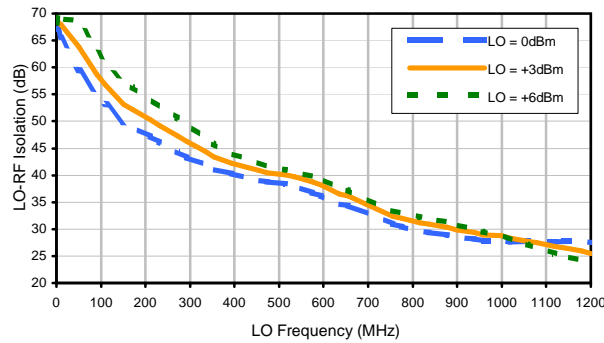


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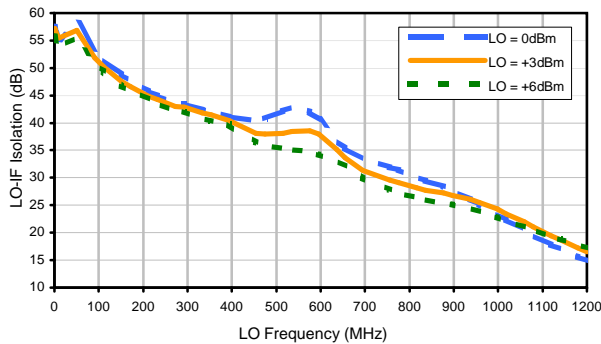


Typical Performance Curves

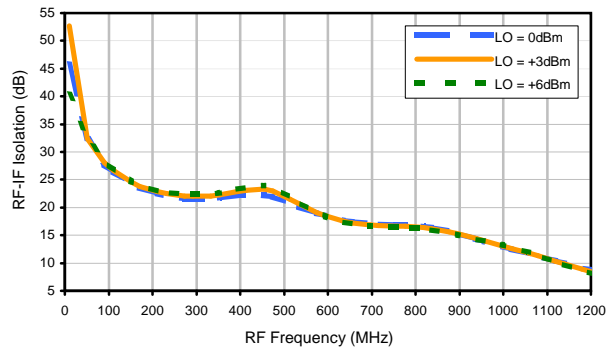
LO-RF Isolation



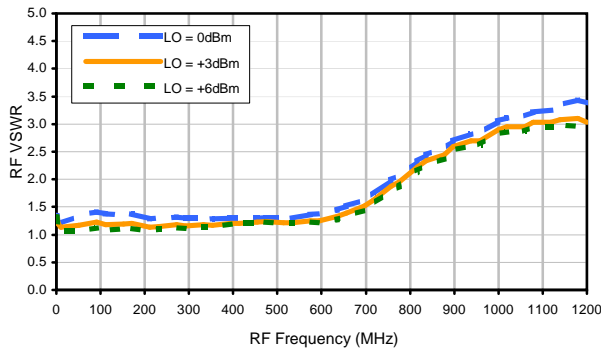
LO-IF Isolation



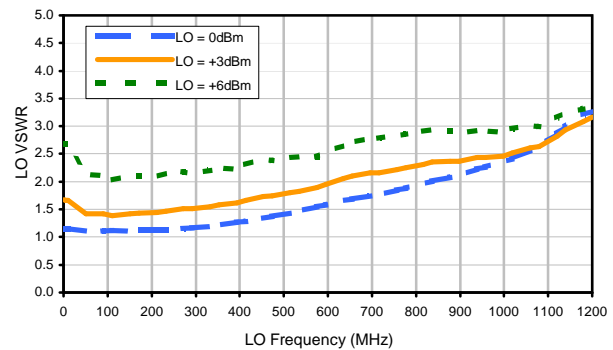
RF-IF Isolation



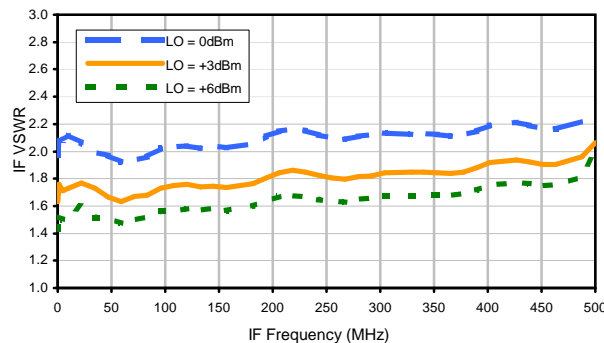
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	18	33	21	27	21	46	36	47	39	57
1	-	16	0	27	14	33	23	38	39	46	41	61
2	107	73	62	63	62	61	58	73	54	70	64	69
3	111	63	70	69	61	86	57	73	59	79	64	83
4	116	89	95	89	85	78	85	83	84	89	92	102
5	121	94	87	96	84	83	77	89	86	97	84	94
6	131	103	102	92	106	96	81	91	92	105	116	101
7	114	101	101	104	98	96	89	77	86	100	101	102
8	118	100	106	114	113	98	101	99	70	93	91	98
9	117	110	108	108	113	105	97	93	100	68	103	92
10	128	107	100	111	104	97	116	97	101	96	67	90
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 250.1 MHz; -15.00 dBm.
 LO IN: 280.01 MHz; +3.00 dBm
 IF OUT: 29.91 MHz; -20.89 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	27	42	33	40	34	54	52	72	59	70
1	-	17	0	28	14	37	24	41	43	52	52	66
2	98	58	50	58	52	63	51	57	48	72	61	67
3	93	45	47	49	50	53	48	51	52	57	55	64
4	90	68	70	69	79	66	77	65	70	71	66	80
5	93	70	67	67	58	69	54	64	53	77	56	73
6	97	83	88	81	93	96	77	87	78	82	79	81
7	93	79	77	86	73	87	74	75	70	74	69	76
8	96	95	92	89	94	88	103	93	89	92	95	92
9	97	102	89	104	81	100	81	92	89	71	96	89
10	95	103	101	103	107	100	97	90	96	94	83	95
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 250.1 MHz; -5.00 dBm.
 LO IN: 280.01 MHz; +3.00 dBm
 IF OUT: 29.91 MHz; -11.01 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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