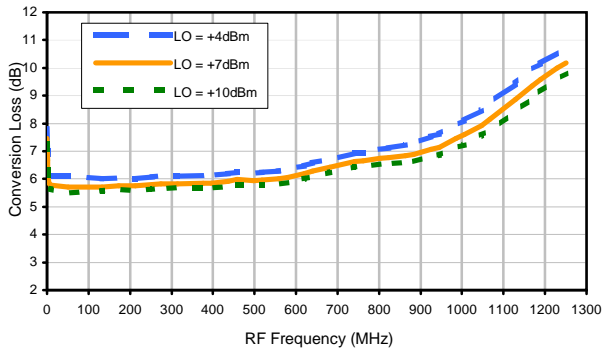


Frequency Mixer

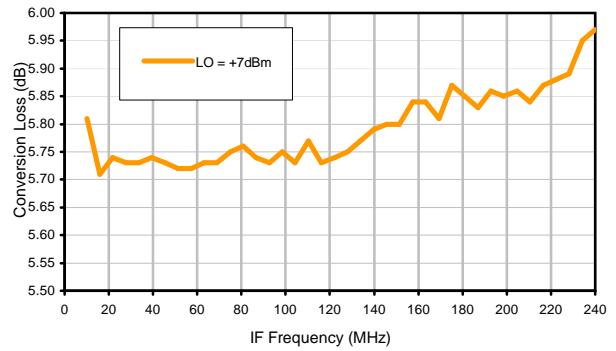
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Typical Performance Curves

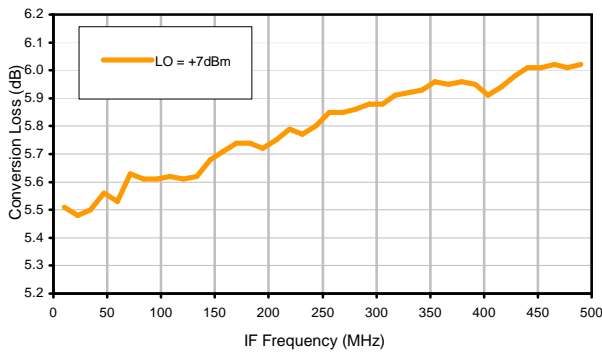
Conversion Loss @ IF=30MHz



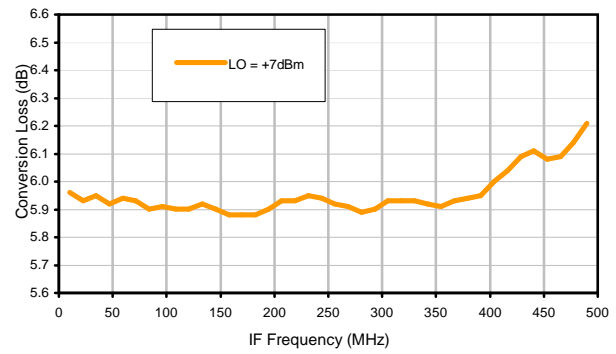
Conversion Loss vs. IF @ RF=250.1MHz



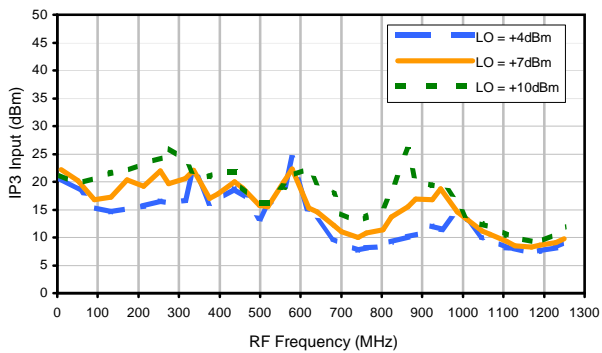
Conversion Loss vs. IF @ RF=10.1MHz



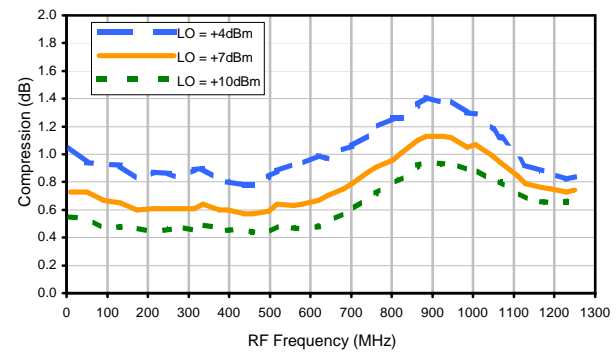
Conversion Loss vs. IF @ RF=500.1MHz



IP3 Input



Compression @ RF IN=+1dBm



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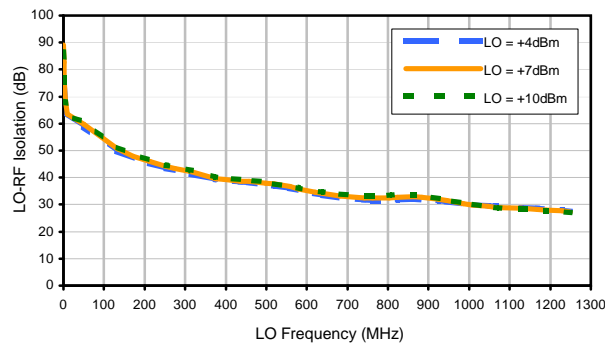


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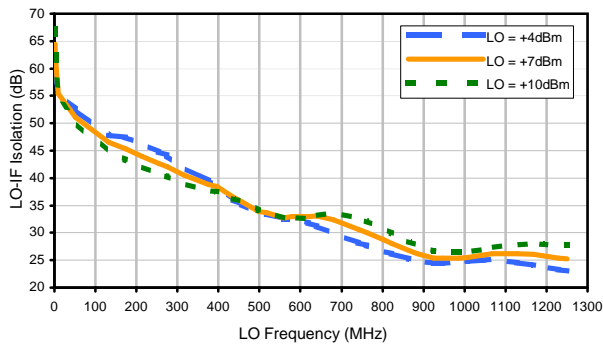


Typical Performance Curves

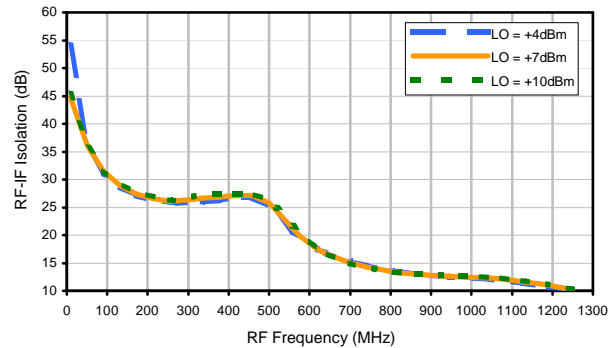
LO-RF Isolation



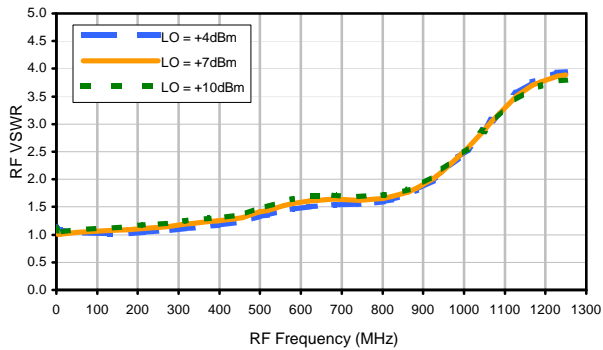
LO-IF Isolation



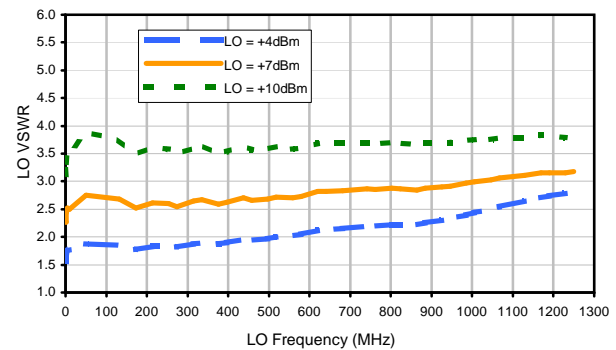
RF-IF Isolation



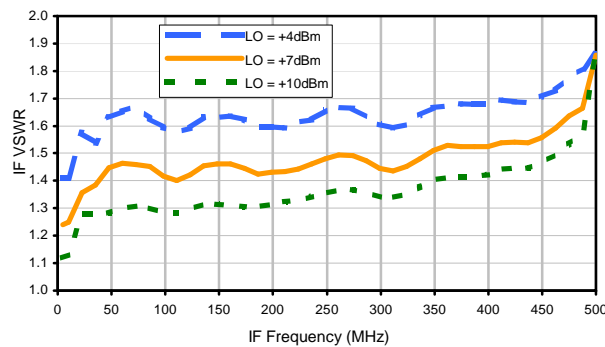
RF VSWR



LO VSWR



IF VSWR



Frequency Mixer

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	14	24	14	31	15	30	19	45	29	39
1	-	21	+0	30	12	33	18	32	23	49	41	48
2	>100	72	52	67	52	69	52	66	49	60	51	71
3	>100	70	77	75	72	>80	64	76	67	>80	67	>80
4	>100	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
5	>100	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
6	>100	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
7	>100	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
8	>100	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
9	>100	>80	>80	>80	>80	>80	>80	>80	>80	66	>80	>80
10	>100	>80	>80	>80	>80	>80	>80	>80	>80	>80	70	>80
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 250.1 MHz; -14.00 dBm.
 LO IN: 280.01 MHz; +7.00 dBm
 IF OUT: 29.91 MHz; -19.92 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	23	34	26	44	27	45	32	63	45	55
1	-	21	+0	31	12	34	19	34	26	51	43	57
2	93	62	45	68	45	60	45	58	44	56	47	68
3	>100	49	51	55	48	56	48	53	45	56	46	63
4	>100	72	72	72	67	72	65	74	60	74	58	71
5	>100	67	70	71	60	76	57	73	56	83	58	70
6	>100	87	80	83	86	83	85	87	82	86	81	>90
7	>100	>90	80	>90	83	>90	>90	>90	88	84	72	81
8	>100	>90	>90	>90	>90	>90	>90	>90	>90	>90	>90	>90
9	>100	>90	>90	>90	84	89	83	>90	83	84	87	>90
10	>100	>90	>90	>90	>90	>90	>90	>90	>90	>90	76	>90
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 250.1 MHz; -4.00 dBm.
 LO IN: 280.01 MHz; +7.00 dBm
 IF OUT: 29.91 MHz; -9.93 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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