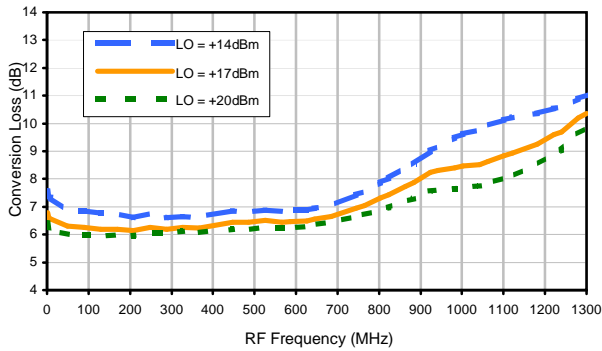


Frequency Mixer

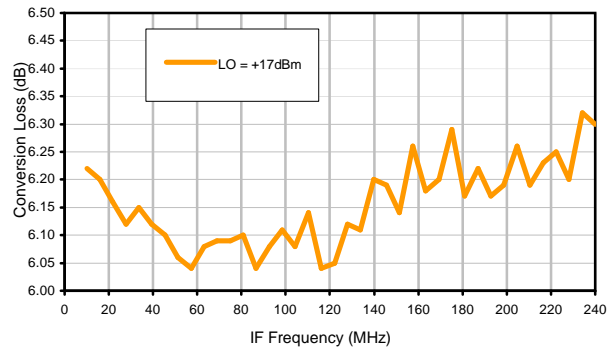
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Typical Performance Curves

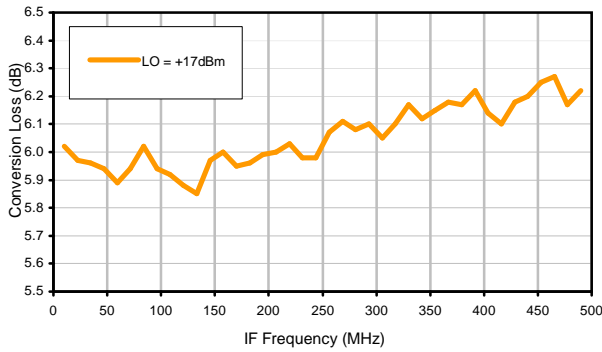
Conversion Loss @ IF=30MHz



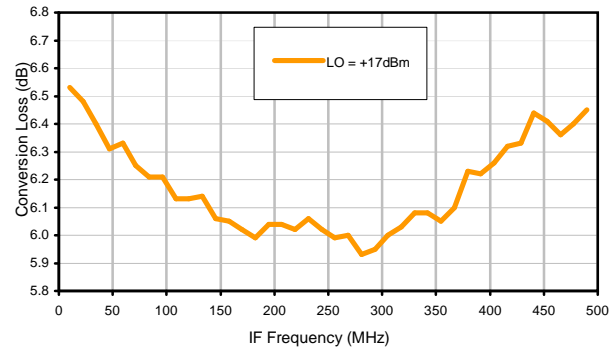
Conversion Loss vs. IF @ RF=250.1MHz



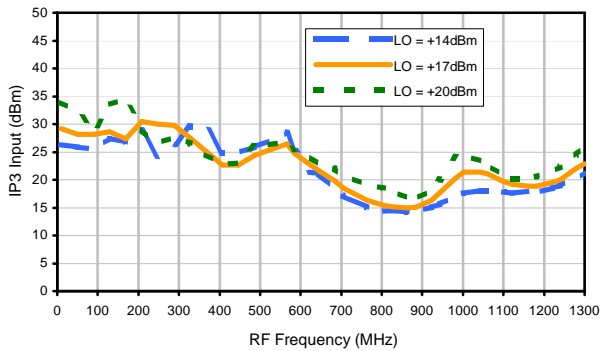
Conversion Loss vs. IF @ RF=10.1MHz



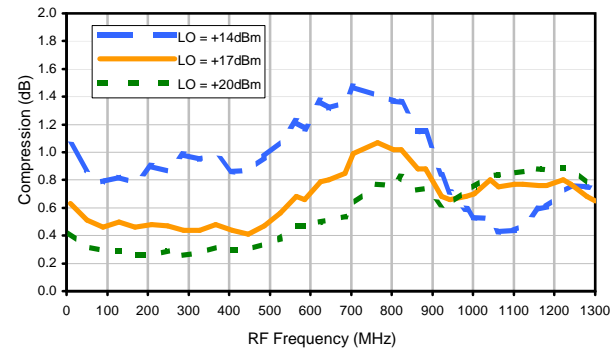
Conversion Loss vs. IF @ RF=500.1MHz



IP3 Input

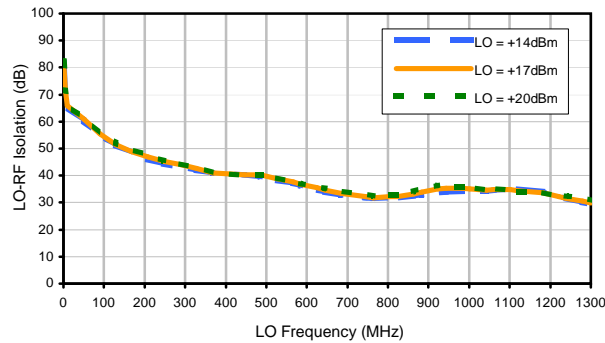


Compression @ RF IN=+14dBm

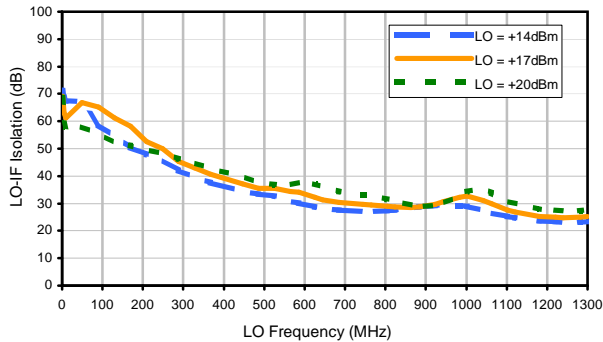


Typical Performance Curves

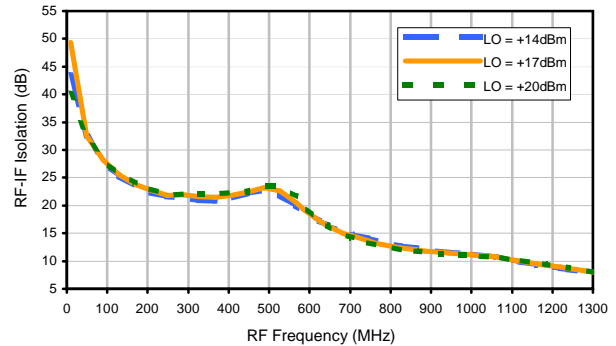
LO-RF Isolation



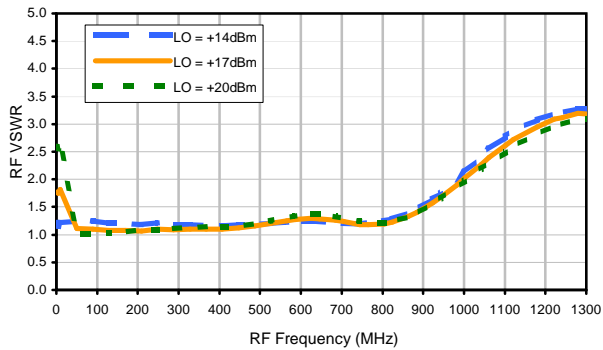
LO-IF Isolation



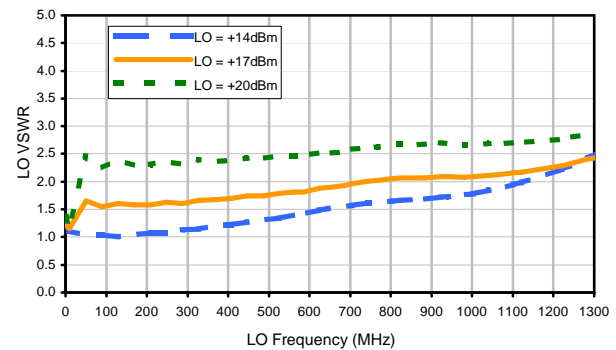
RF-IF Isolation



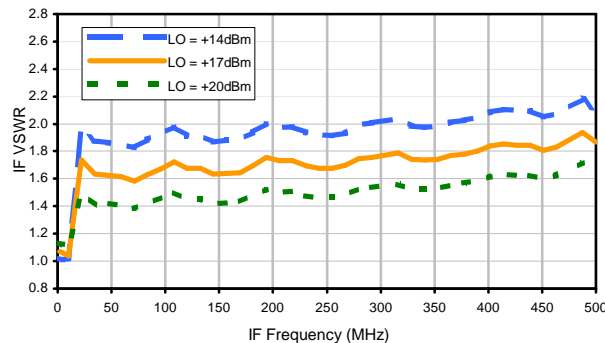
RF VSWR



LO VSWR



IF VSWR



Frequency Mixer

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	22	26	15	28	21	33	52	48	36	40
1	-	16	+0	26	14	31	22	37	36	46	34	48
2	88	71	49	64	48	62	48	63	50	63	65	66
3	>100	59	61	65	57	67	50	68	50	63	47	64
4	>100	79	73	79	72	79	77	85	83	88	79	79
5	>100	79	77	82	73	80	70	78	69	79	69	87
6	>100	89	92	>93	91	>93	87	90	88	>93	87	>93
7	>100	>93	>93	>93	92	>93	91	90	88	92	92	>93
8	>100	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93
9	>100	>93	>93	>93	>93	>93	>93	>93	>93	78	>93	>93
10	>100	>93	>93	>93	>93	>93	>93	>93	>93	>93	83	>93
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 250.1 MHz; -1.00 dBm.
 LO IN: 280.01 MHz; +17.00 dBm
 IF OUT: 29.91 MHz; -7.28 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	33	37	27	42	36	53	54	63	68	66
1	-	16	+0	27	13	34	22	35	34	53	46	60
2	76	60	47	65	44	56	42	54	44	56	64	67
3	>100	44	44	47	49	50	46	47	58	60	42	56
4	>100	70	62	68	59	65	59	63	57	67	58	70
5	>100	61	63	73	59	66	52	59	48	59	48	61
6	>100	73	70	78	68	79	68	75	70	75	68	76
7	>100	74	72	76	67	71	69	71	62	68	60	68
8	>100	87	78	77	77	82	76	84	76	84	78	89
9	>100	88	80	77	77	79	72	81	69	75	68	73
10	>100	>103	101	87	87	84	90	84	85	90	91	102
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 250.1 MHz; 9.00 dBm.
 LO IN: 280.01 MHz; +17.00 dBm
 IF OUT: 29.91 MHz; 2.7 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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