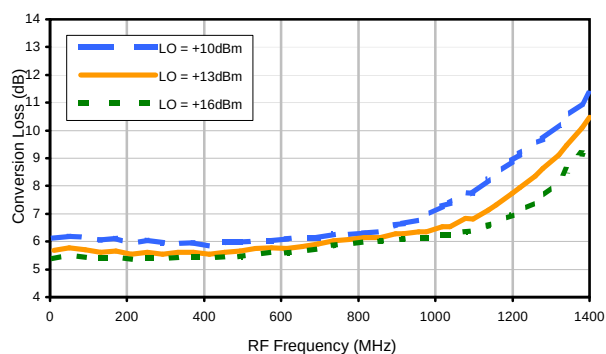


Frequency Mixer

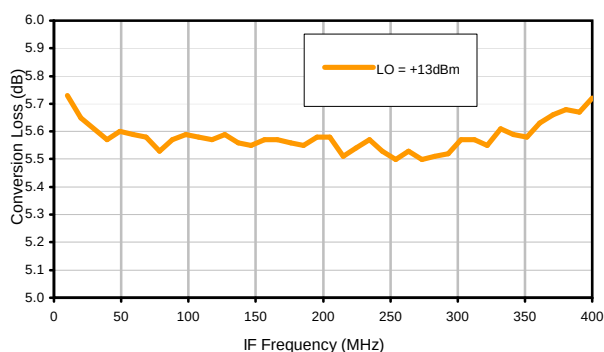
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Typical Performance Curves

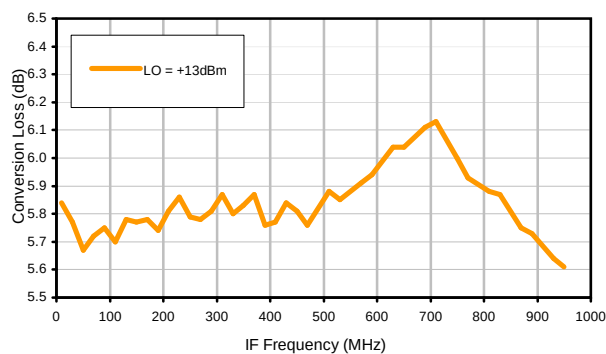
Conversion Loss @ IF=30MHz



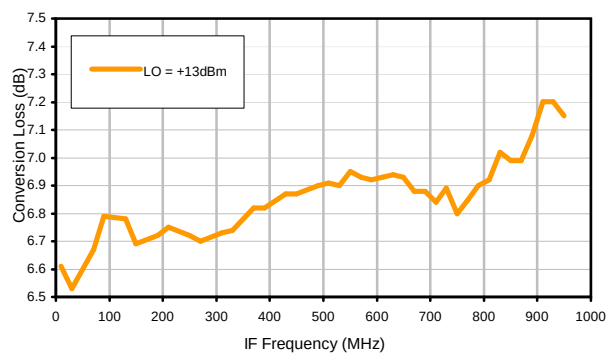
Conversion Loss vs. IF @ RF=500.1MHz



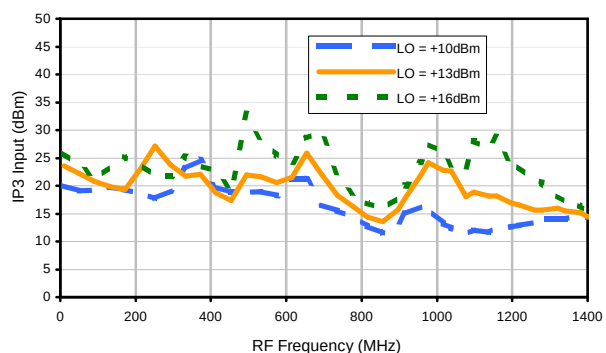
Conversion Loss vs. IF @ RF=50.1MHz



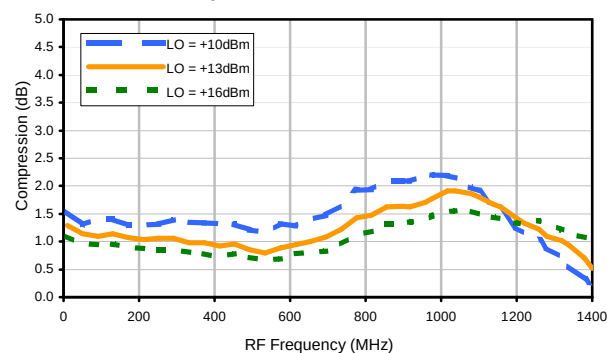
Conversion Loss vs. IF @ RF=1000.1MHz



IP3 Input



Compression @ RF IN=+9dBm



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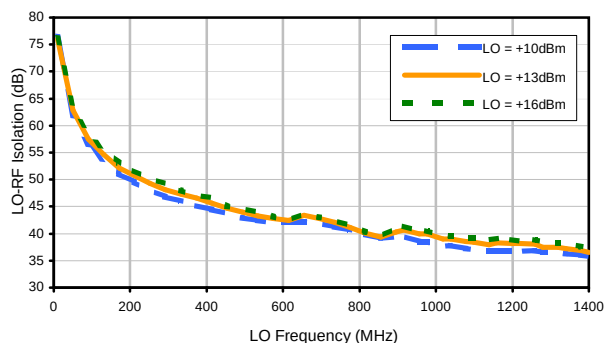


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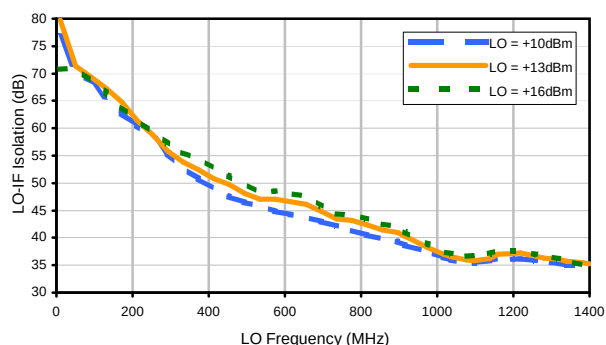


Typical Performance Curves

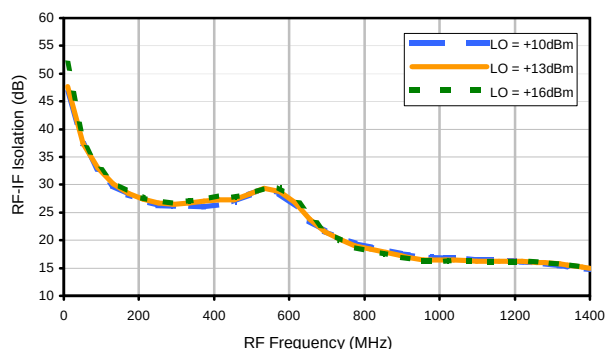
LO-RF Isolation



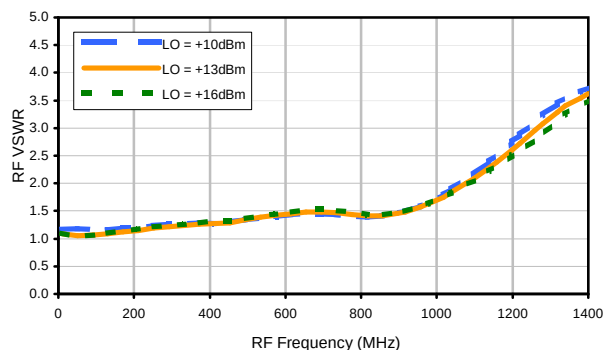
LO-IF Isolation



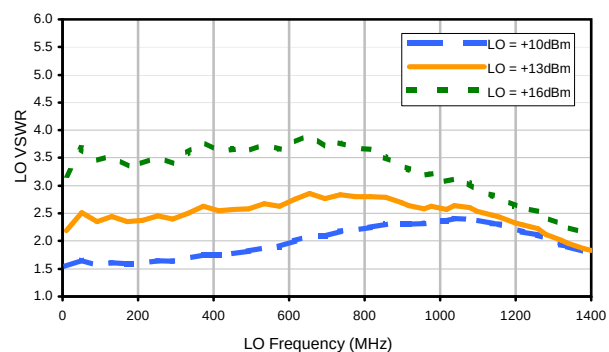
RF-IF Isolation



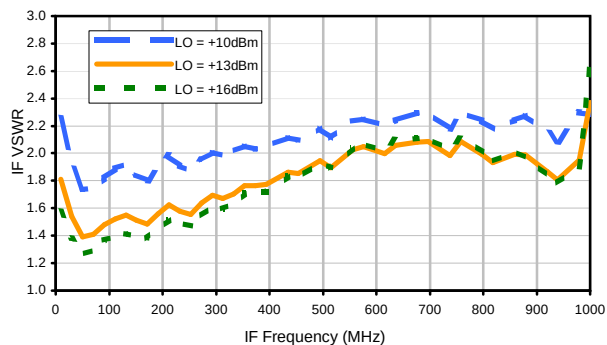
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	32	38	37	45	41	63	55	60	58	74
1	-	23	+0	29	12	33	21	41	45	45	56	61
2	81	66	68	60	62	66	59	57	58	82	59	65
3	>100	64	41	56	43	52	38	57	46	53	56	50
4	>100	81	77	68	76	69	72	73	76	83	77	83
5	>100	71	64	73	53	66	50	60	47	64	52	74
6	>100	97	88	94	79	84	77	85	75	89	79	84
7	>100	84	78	84	75	84	74	96	69	81	65	80
8	>100	>98	>98	>98	95	>98	92	89	95	85	86	83
9	>100	89	90	89	90	87	92	86	77	83	74	79
10	>100	>98	>98	>98	>98	>98	>98	95	93	95	88	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; -1.88 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	22	28	26	31	29	54	37	42	41	74
1	-	22	+0	28	11	32	20	37	44	37	46	51
2	>100	66	80	65	76	69	67	66	65	85	66	70
3	>100	>88	72	87	64	75	59	79	62	79	68	74
4	>100	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
5	>100	>88	86	>88	>88	>88	88	>88	86	>88	85	>88
6	>100	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
7	>100	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
8	>100	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
9	>100	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
10	>100	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
	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; -11.88 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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