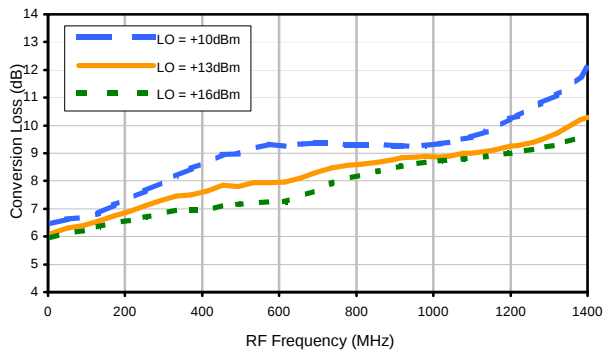


Frequency Mixer

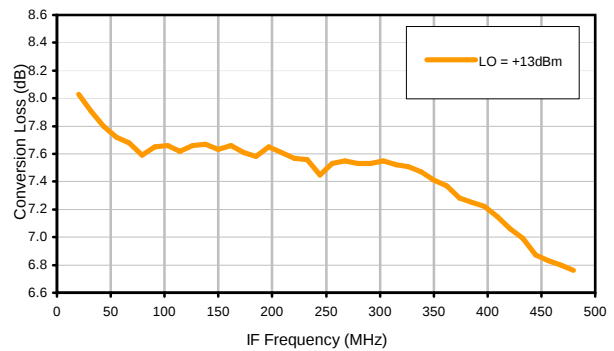
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Typical Performance Curves

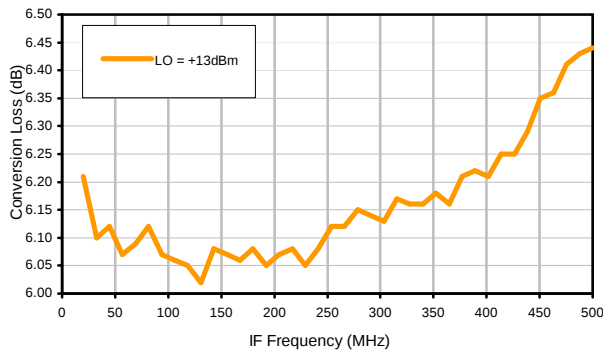
Conversion Loss @ IF=30MHz



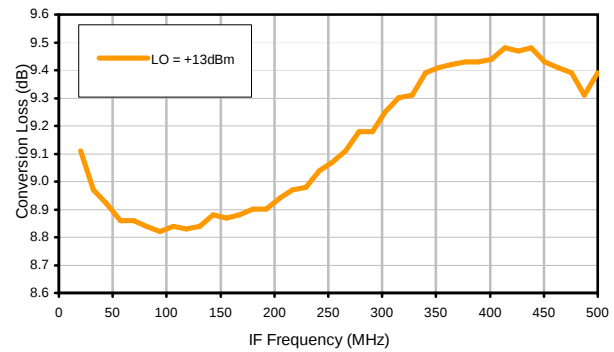
Conversion Loss vs. IF @ RF=500.1MHz



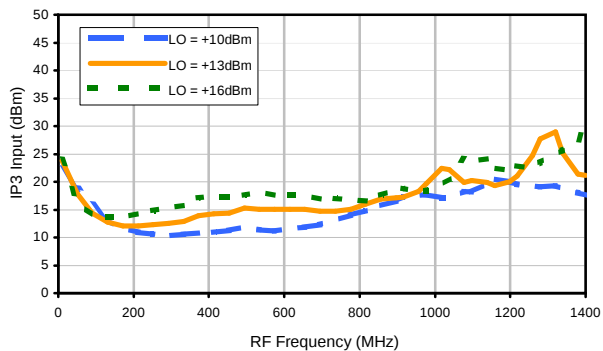
Conversion Loss vs. IF @ RF=10.1MHz



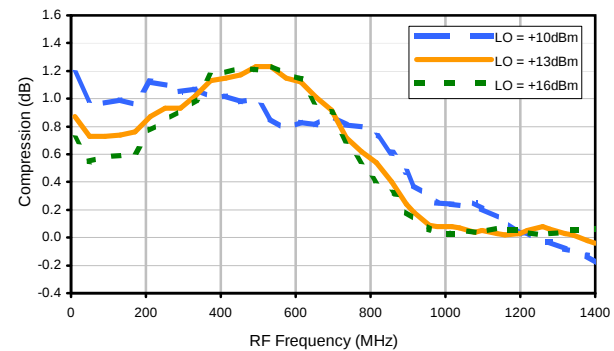
Conversion Loss vs. IF @ RF=1000.1MHz



IP3 Input

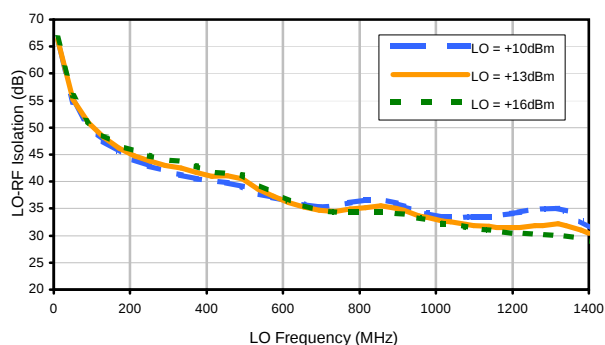


Compression @ RF IN=+9dBm

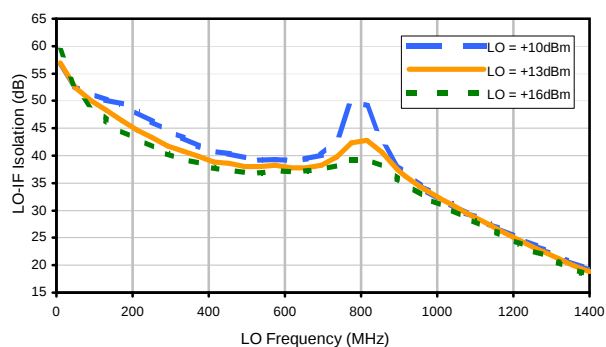


Typical Performance Curves

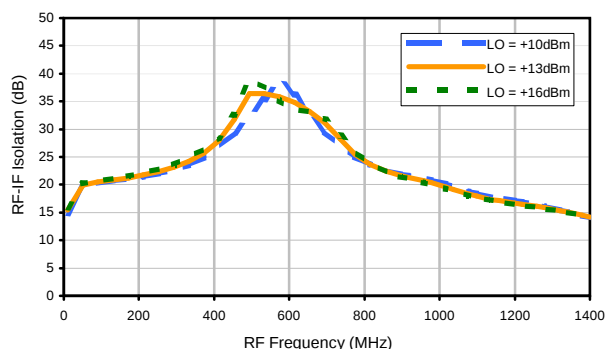
LO-RF Isolation



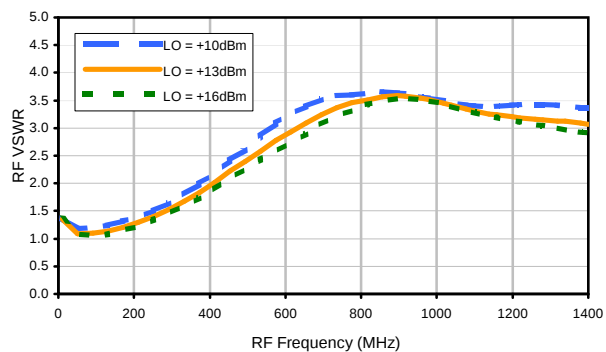
LO-IF Isolation



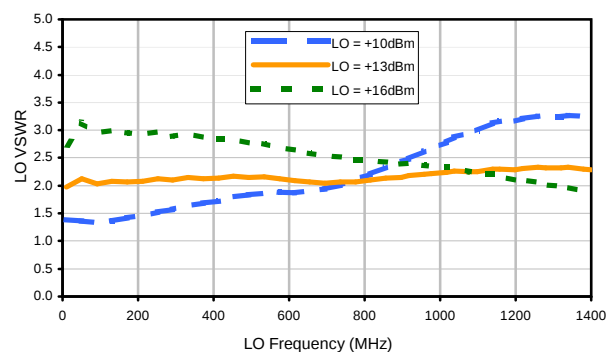
RF-IF Isolation



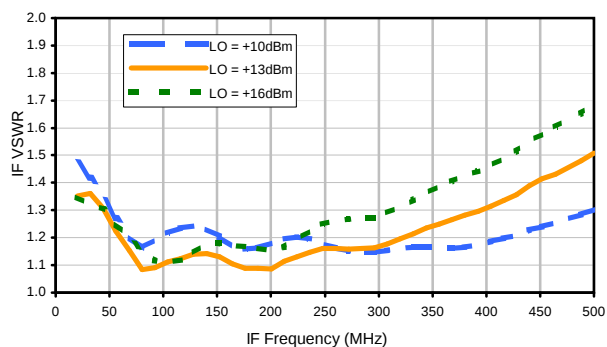
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	11	21	8	32	12	37	32	52	39	57
1	-	27	+0	31	20	44	40	33	31	42	34	49
2	>100	58	47	57	52	64	55	55	47	59	55	60
3	>100	68	49	57	46	55	53	76	63	58	76	62
4	>100	>86	84	76	68	74	69	78	84	71	67	75
5	>100	>86	>86	>86	78	80	75	78	79	>86	>86	84
6	>100	>86	>86	>86	>86	>86	>86	>86	86	>86	>86	>86
7	>100	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86
8	>100	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86
9	>100	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86
10	>100	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86	>86
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; -14.09 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	20	32	20	46	28	51	53	70	55	72
1	-	29	+0	29	19	47	56	40	41	57	46	83
2	85	51	41	54	45	66	45	54	51	68	59	74
3	>100	51	31	43	31	44	41	75	48	53	52	64
4	>100	74	66	61	58	64	64	65	65	60	56	73
5	>100	55	67	61	63	55	52	48	56	68	72	56
6	>100	72	64	80	76	69	65	61	63	69	83	61
7	>100	73	64	67	82	75	54	53	51	56	62	79
8	>100	89	86	77	79	93	74	65	66	64	73	74
9	>100	94	75	87	68	71	88	69	62	70	66	64
10	>100	>96	91	94	90	80	79	>96	84	77	84	69
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; -3.7 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.

REV. X2

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100818

Page 3 of 3



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