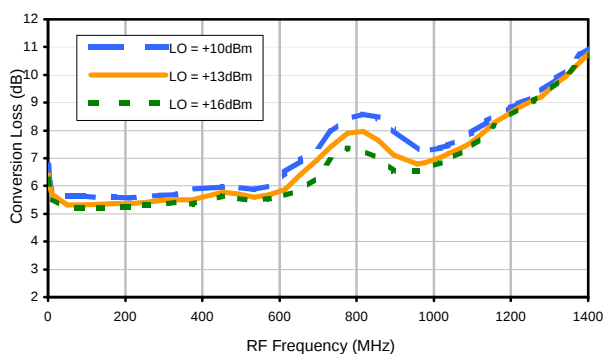


Frequency Mixer

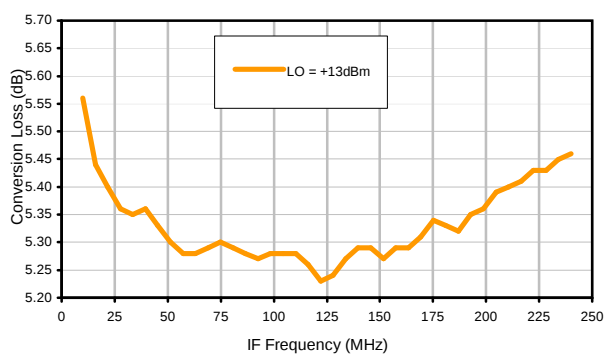
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Typical Performance Curves

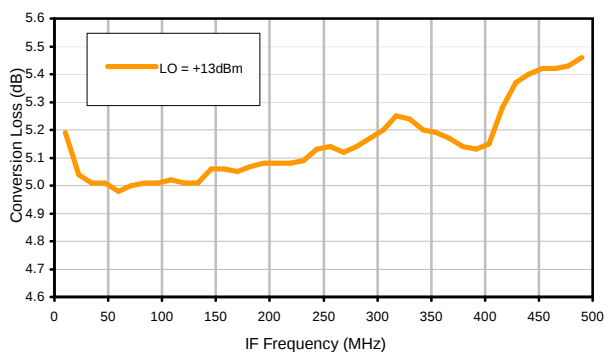
Conversion Loss @ IF=30MHz



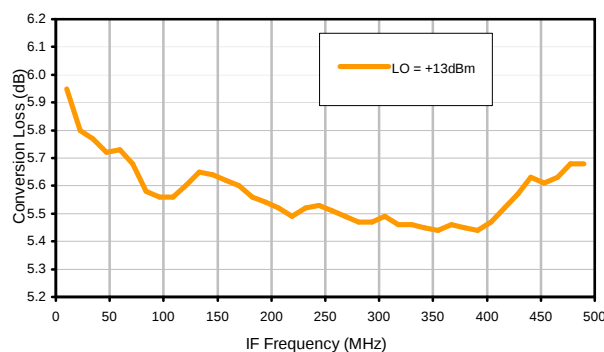
Conversion Loss vs. IF @ RF=250.1MHz



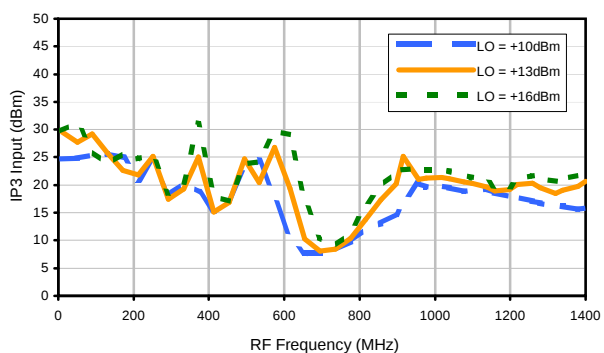
Conversion Loss vs. IF @ RF=10.1MHz



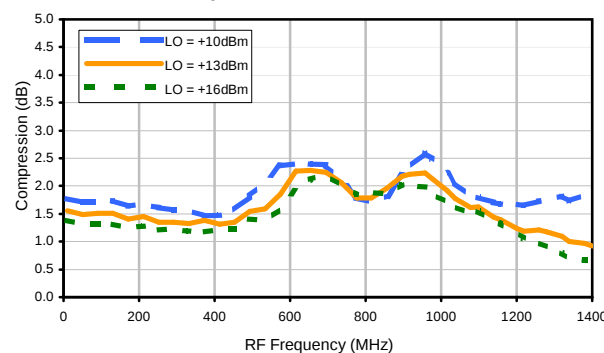
Conversion Loss vs. IF @ RF=500.1MHz



IP3 Input



Compression @ RF IN=+9dBm



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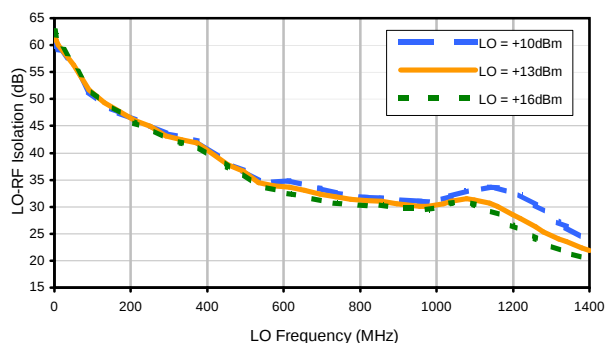


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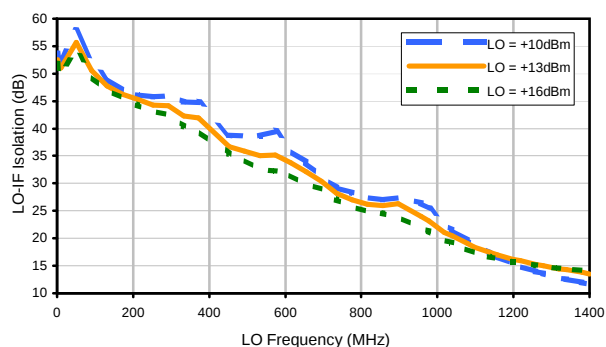


Typical Performance Curves

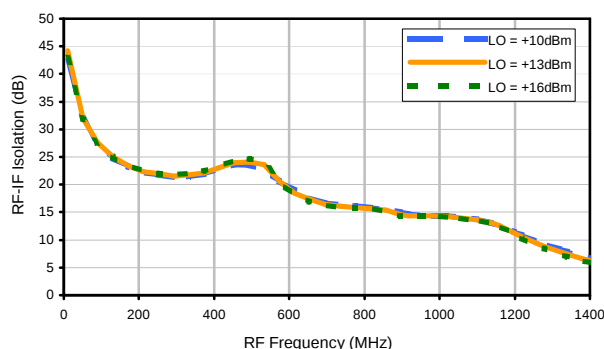
LO-RF Isolation



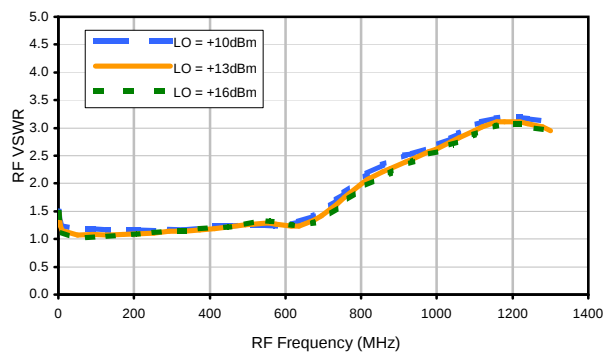
LO-IF Isolation



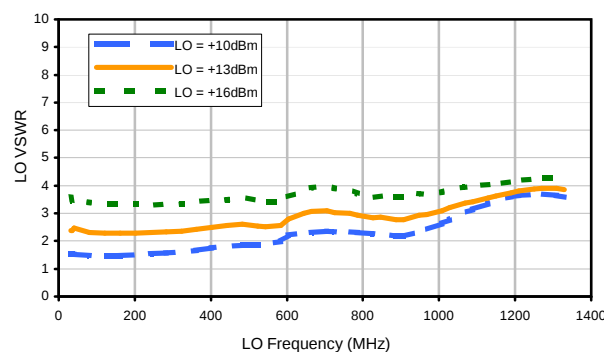
RF-IF Isolation



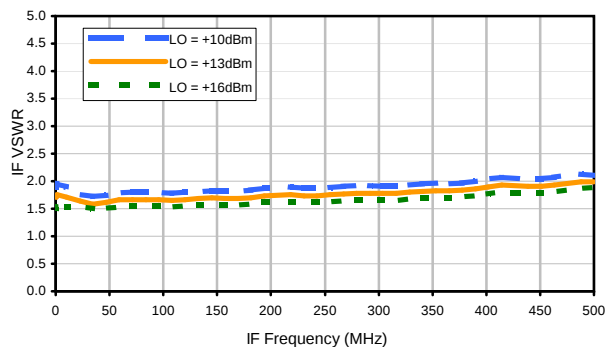
RF VSWR



LO VSWR



IF VSWR



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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	20	25	21	33	18	37	29	45	30	48
1	-	17	+0	26	12	31	17	34	31	41	40	47
2	>100	70	57	66	57	65	54	66	50	62	63	72
3	>100	66	68	73	61	75	55	74	55	70	58	75
4	>100	88	77	>89	77	>89	78	83	77	87	84	>89
5	>100	86	81	>89	78	>89	80	>89	78	87	76	87
6	>100	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89
7	>100	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89
8	>100	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89
9	>100	>89	>89	>89	>89	>89	>89	>89	>89	70	>89	>89
10	>100	>89	>89	>89	>89	>89	>89	>89	>89	>89	77	>89
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions:

RF IN: 250.1 MHz; -6.00 dBm.

LO IN: 280.01 MHz; +13.00 dBm

IF OUT: 29.91 MHz; -11.36 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	29	35	34	46	31	48	43	59	49	65
1	-	17	+0	27	12	34	18	34	32	47	46	54
2	87	71	46	59	47	71	47	61	44	61	57	65
3	>100	41	45	46	46	47	42	45	40	58	51	55
4	>100	67	68	66	68	66	65	63	59	68	56	66
5	>100	75	59	57	51	61	48	57	46	63	47	60
6	>100	82	75	81	75	85	73	>99	70	75	68	73
7	>100	76	73	74	72	68	72	65	65	62	59	61
8	>100	91	88	85	84	88	80	83	80	77	76	74
9	>100	89	80	84	72	73	71	69	71	70	70	70
10	>100	98	93	>99	92	90	84	88	85	92	79	89
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; +13.00 dBm

IF OUT: 29.91 MHz; -1.43 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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