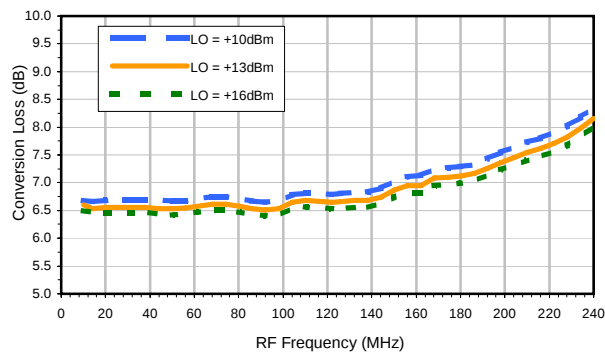


Frequency Mixer

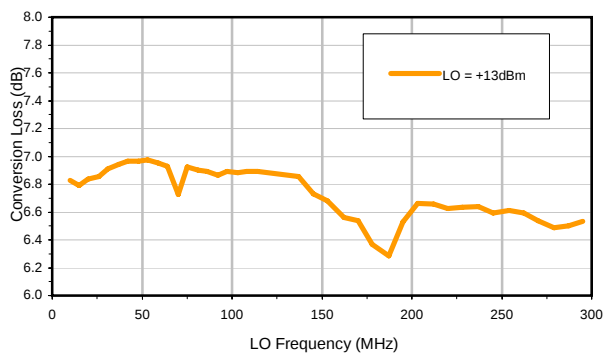
Typical Performance Curves

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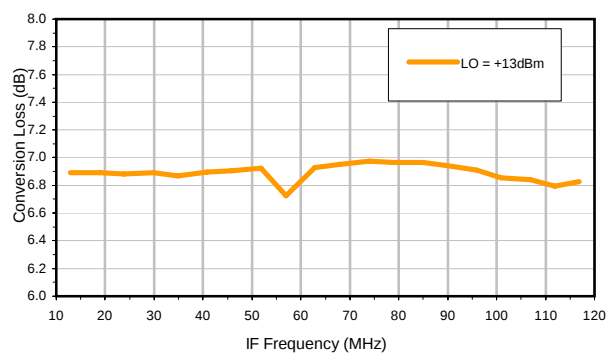
Conversion Loss @IF=30 MHz



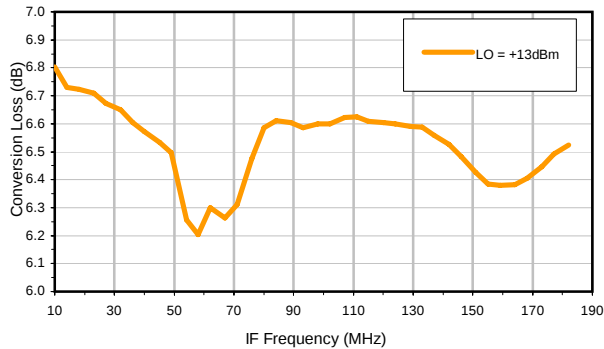
Conversion Loss vs. LO @ RF=127 MHz



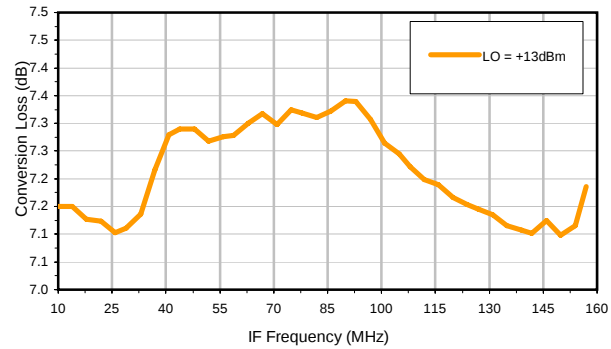
Conversion Loss vs. IF @ RF=127 MHz



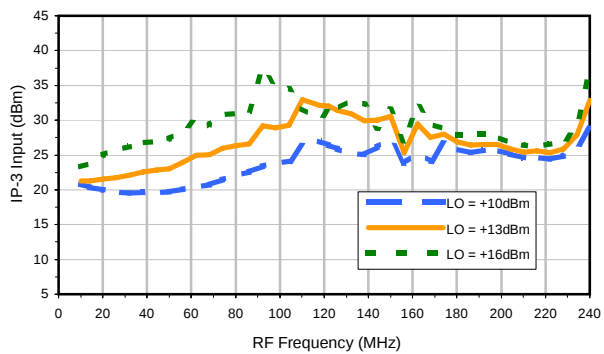
Conversion Loss vs. IF @ RF=118 MHz



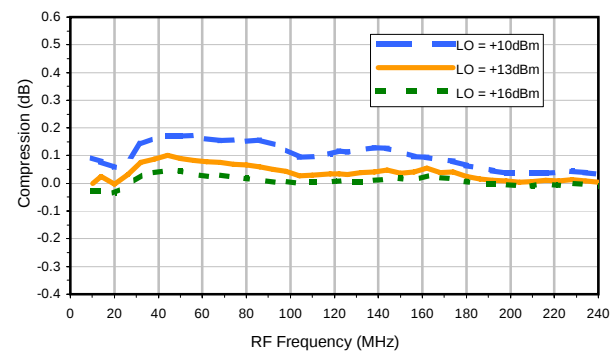
Conversion Loss vs. IF @ RF=167 MHz



IP-3 Input



Compression @RF IN=+16 dBm



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IF/RF MICROWAVE COMPONENTS

REV. X1

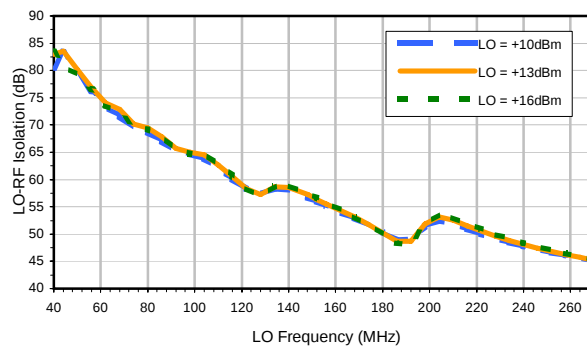
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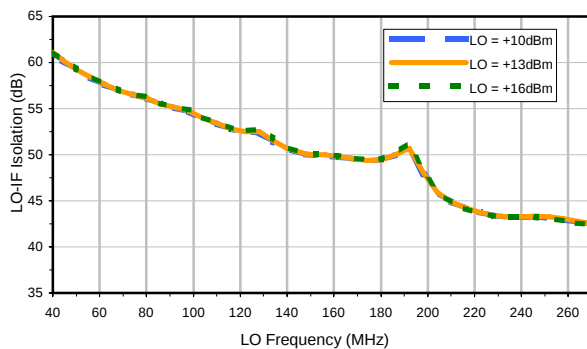
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Typical Performance Curves

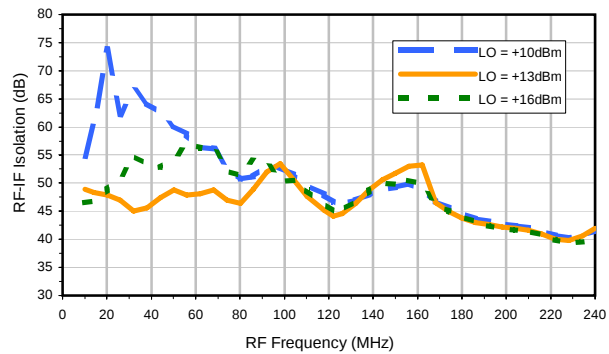
LO-RF Isolation



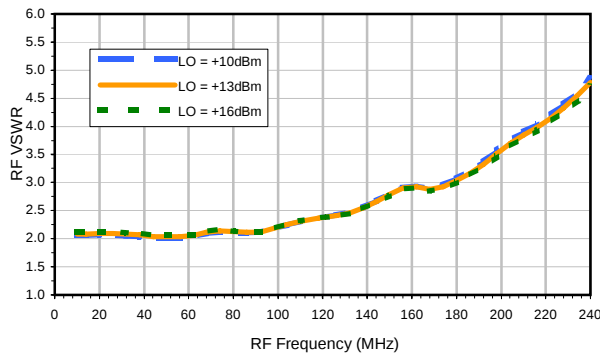
LO-IF Isolation



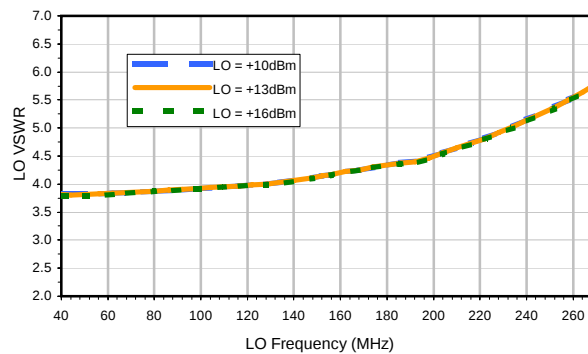
RF-IF Isolation



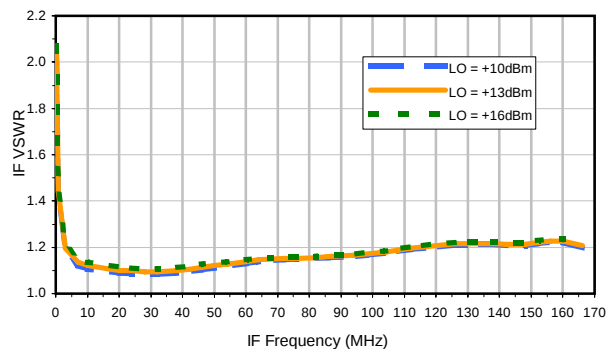
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	---	15.05	22.79	26.54	23.65	21.43	24.00	30.33	38.51	41.60	23.52
1	---	40.02	---	47.65	11.58	43.23	17.64	44.33	16.95	48.44	24.73	56.54
2	123.81	72.56	71.13	75.68	90.11	74.79	73.21	73.58	70.09	75.59	77.53	78.49
3	127.86	86.62	94.25	94.52	84.90	89.58	82.94	88.48	77.06	91.56	78.35	104.43
4	128.25	103.59	105.68	101.24	102.44	92.64	103.31	102.99	105.50	103.10	102.10	103.91
5	129.70	106.19	103.27	103.65	96.63	100.40	92.21	101.45	103.84	105.08	94.48	102.57
6	129.66	101.27	105.21	102.46	101.69	89.97	100.81	92.38	104.64	102.76	105.85	104.50
7	129.82	104.47	98.60	107.78	102.88	100.67	95.78	102.26	98.88	105.16	103.32	106.04
8	125.79	100.53	105.08	104.55	104.91	103.66	100.63	98.89	100.72	100.11	105.02	105.00
9	129.40	104.89	103.86	105.49	100.50	104.00	103.38	99.77	97.95	101.44	100.27	104.41
10	126.98	102.86	104.93	106.21	103.23	105.65	102.59	105.16	98.42	102.73	99.84	98.81
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 127 MHz; -15.00 dBm

LO IN: 157 MHz; +13 dBm

IF OUT: 30 MHz; -21.56 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	---	25.23	32.06	36.40	33.49	31.13	34.25	40.37	48.93	51.99	33.24
1	---	40.07	---	46.91	11.58	42.84	17.86	43.99	17.09	48.48	24.93	57.26
2	108.79	61.22	60.61	65.85	84.87	63.09	63.28	64.59	59.95	67.33	67.10	67.65
3	122.94	72.77	74.46	84.08	70.66	74.78	65.85	75.42	59.52	76.96	60.36	89.88
4	123.84	89.11	96.88	96.15	94.96	87.17	94.72	88.65	106.23	92.28	92.31	91.16
5	122.72	90.53	87.45	88.45	89.33	95.32	89.40	88.71	85.73	90.28	79.48	100.66
6	123.36	99.52	114.79	100.58	107.41	91.29	110.60	94.03	108.84	106.48	115.05	104.14
7	124.67	114.02	97.62	109.11	108.66	104.93	95.11	111.05	103.92	107.90	100.83	106.73
8	122.92	103.13	113.90	104.57	115.72	109.45	110.30	99.66	109.45	100.87	114.53	107.41
9	123.82	116.59	101.44	113.86	102.81	114.21	103.44	110.10	96.26	109.22	97.41	112.58
10	122.29	115.47	113.32	113.99	114.92	111.09	113.21	108.46	107.92	105.73	109.11	107.80
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 127 MHz; -5.00 dBm

LO IN: 157 MHz; +13 dBm

IF OUT: 30 MHz; -11.63 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 represents the Harmonics level of the RF Input Signal to the mixer