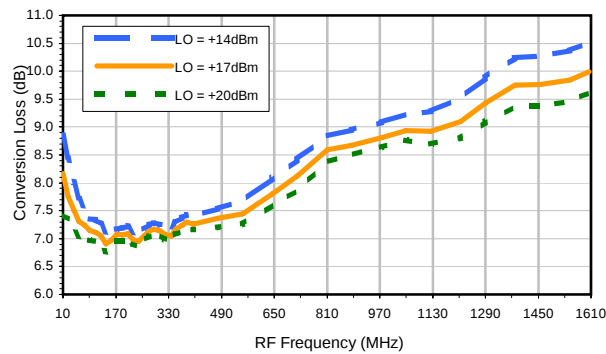


Frequency Mixer

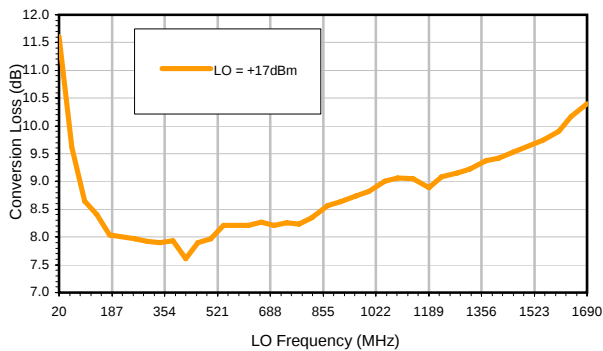
Typical Performance Curves

MWJ-ED13697/1

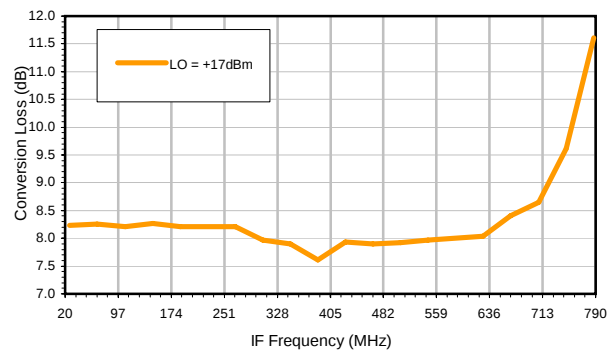
Conversion Loss @IF=30 MHz



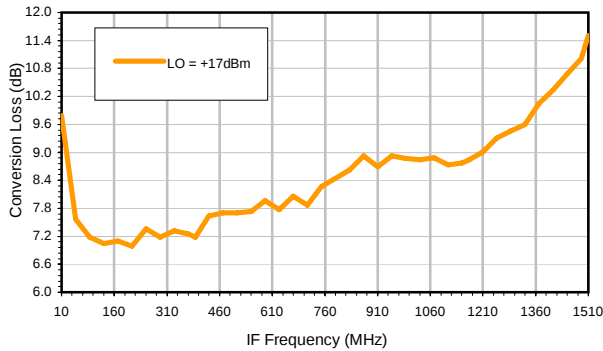
Conversion Loss vs. LO @ RF=807 MHz



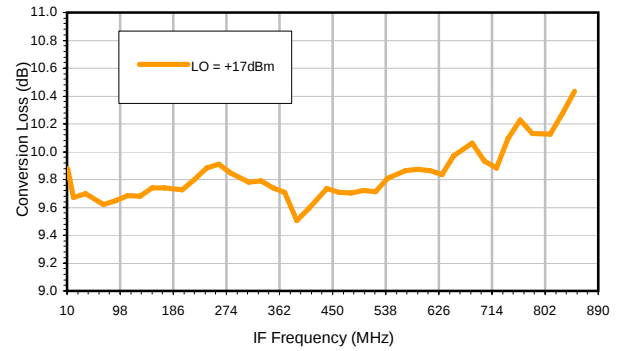
Conversion Loss vs. IF @ RF=807 MHz



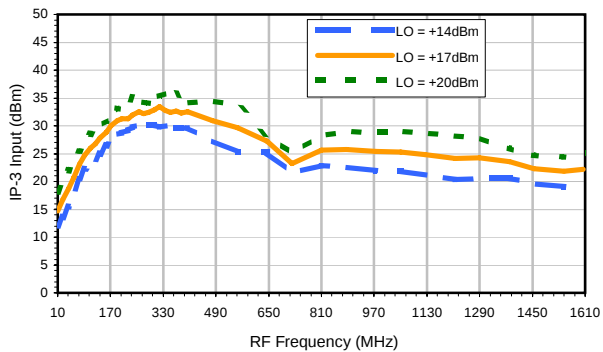
Conversion Loss vs. IF @ RF=10 MHz



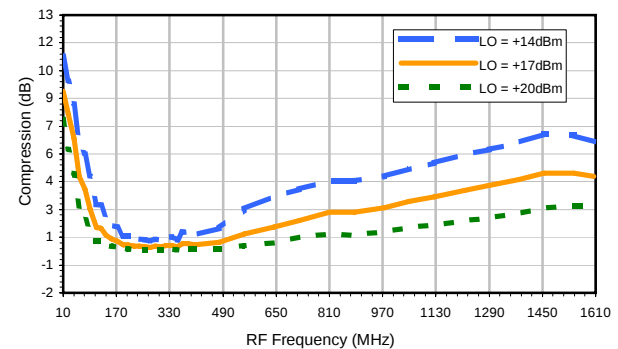
Conversion Loss vs. IF @ RF=1605 MHz



IP-3 Input



Compression @RF IN=+20 dBm



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IF/RF MICROWAVE COMPONENTS

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10/4/2010

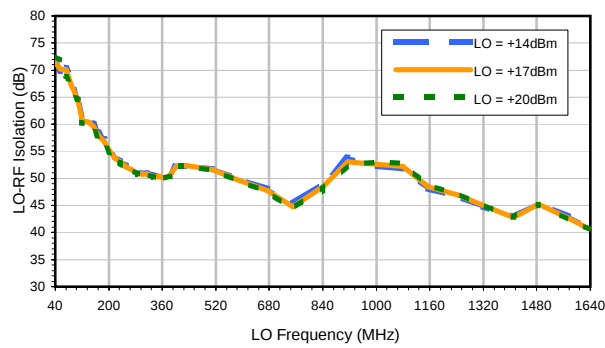
Page 1 of 3

Frequency Mixer

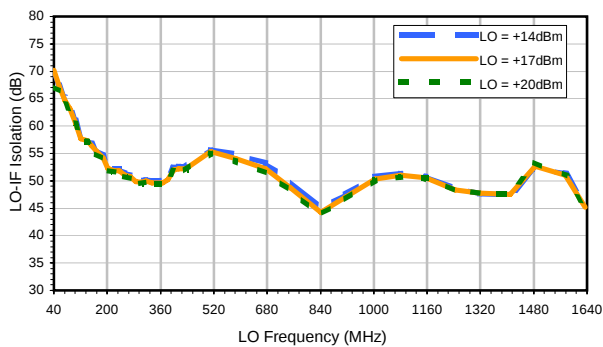
Typical Performance Curves

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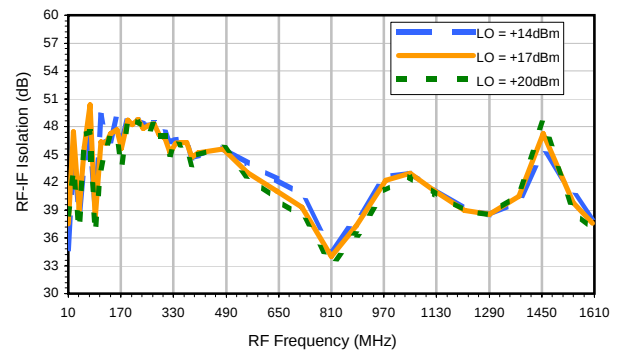
LO-RF Isolation



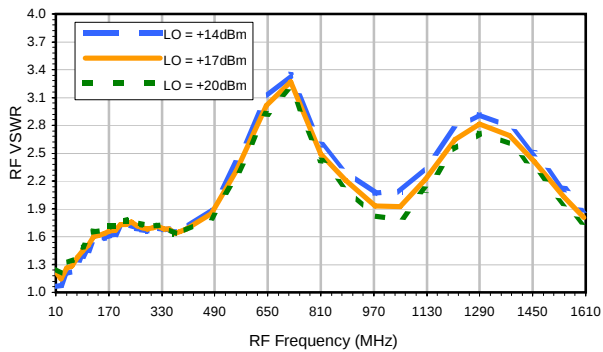
LO-IF Isolation



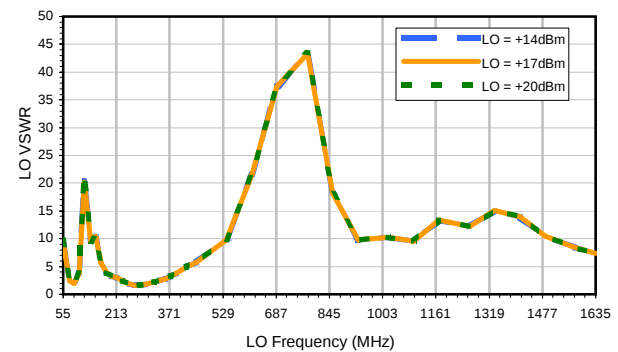
RF-IF Isolation



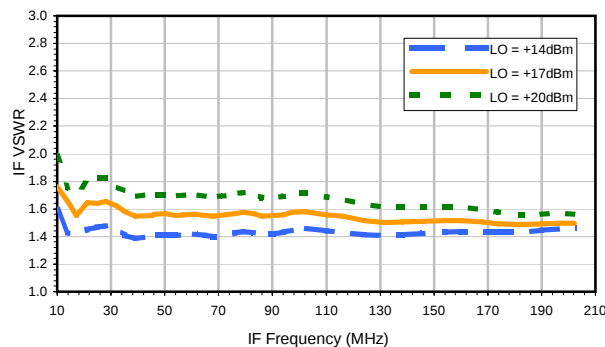
RF VSWR



LO VSWR



IF VSWR



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IF/RF MICROWAVE COMPONENTS

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MJW-ED13697/1

10/4/2010

Page 2 of 3

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	---	19.97	22.32	45.44	51.28	49.43	116.98	118.43	110.20	115.01	114.77
1	---	25.25	---	25.02	17.38	47.47	54.21	49.21	105.02	111.23	109.38	107.10
2	91.92	52.78	60.23	58.06	60.91	55.32	77.79	70.14	73.46	118.79	117.00	117.48
3	113.79	87.09	62.57	68.47	58.54	65.81	65.96	83.62	87.66	81.64	118.60	116.48
4	115.52	119.77	112.83	95.67	96.31	85.39	90.63	89.45	111.57	104.77	101.23	118.62
5	114.14	119.48	117.74	117.78	96.98	110.54	101.25	105.62	106.73	117.33	120.61	118.32
6	115.80	119.79	118.38	118.29	119.24	116.51	106.07	113.74	102.23	118.22	117.36	118.17
7	113.56	118.21	119.11	116.89	119.15	118.53	107.81	101.57	111.30	106.84	114.30	118.77
8	113.93	118.32	116.50	118.63	118.94	120.56	117.99	114.68	102.24	112.21	102.94	118.91
9	115.68	119.34	118.82	118.15	118.64	117.05	118.21	116.35	116.11	108.10	111.01	108.90
10	115.12	119.13	117.98	119.08	118.02	118.89	118.78	118.07	119.71	114.86	107.33	110.35
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions: RF IN: 807.0 MHz; 0 dBm.
LO IN: 837.0 MHz; +17.00 dBm
IF OUT: 30.0 MHz; -8.58 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	---	32.36	33.90	49.81	63.37	57.54	113.20	121.55	119.23	117.67	122.38
1	---	25.88	---	25.81	18.03	49.76	67.79	52.55	102.66	118.11	110.57	113.67
2	81.63	41.56	53.01	46.63	51.47	47.21	70.22	60.56	66.51	115.93	121.60	122.45
3	103.50	68.68	42.42	51.09	40.12	49.00	49.21	67.28	71.34	67.05	120.00	121.40
4	105.23	83.02	77.26	62.58	65.99	55.09	61.79	60.25	80.15	79.90	76.07	122.40
5	103.85	101.71	89.67	82.19	64.79	66.41	62.35	63.72	69.72	83.88	89.86	79.42
6	105.51	100.32	111.29	102.66	90.75	84.29	75.83	75.16	72.21	77.29	94.14	93.24
7	103.27	121.70	97.10	108.60	107.84	92.56	82.48	78.31	81.60	77.59	91.27	100.79
8	103.64	123.25	123.16	109.10	119.84	122.01	100.66	90.13	85.80	86.98	82.42	91.91
9	105.39	122.63	122.28	122.44	108.88	117.12	119.41	103.56	98.43	91.05	100.86	92.63
10	104.83	123.05	121.54	122.36	121.86	122.35	123.32	123.83	107.54	102.01	95.75	100.48
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions: RF IN: 807.0 MHz; +10 dBm.
LO IN: 837.0 MHz; +17.00 dBm
IF OUT: 30.0 MHz; 1.71 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