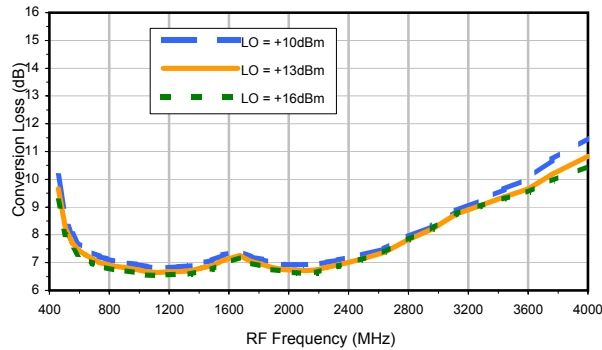


Frequency Mixer

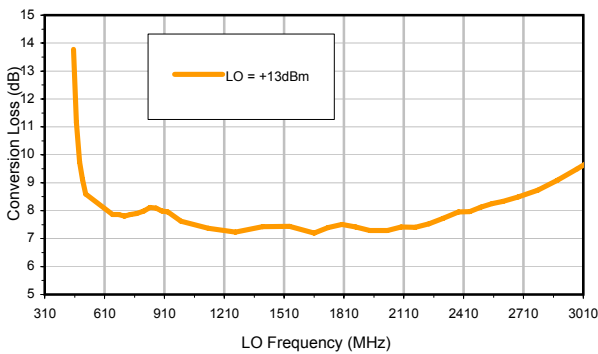
Typical Performance Curves

HJK-272MH+

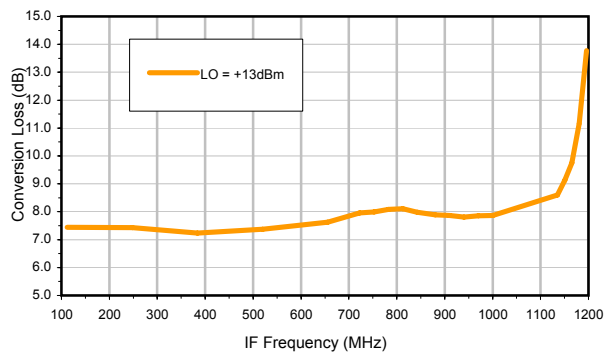
Conversion Loss @IF=30 MHz



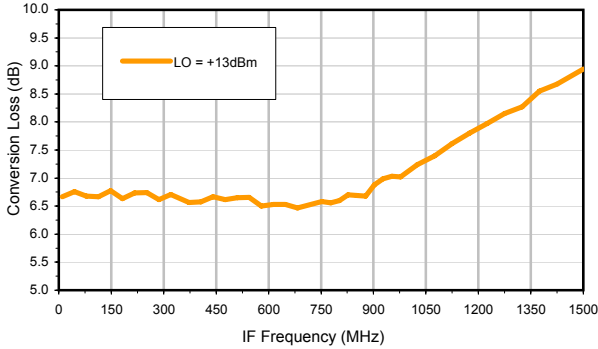
Conversion Loss vs. LO @ RF=1650 MHz



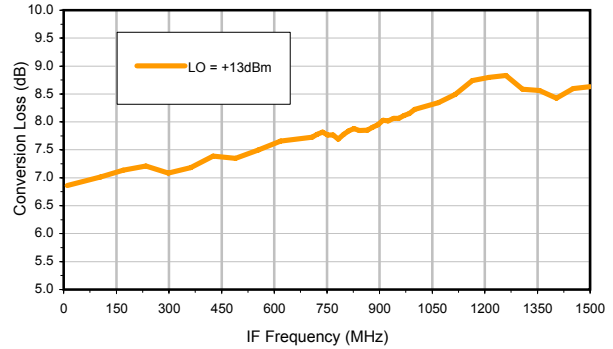
Conversion Loss vs. IF @ RF=1650 MHz



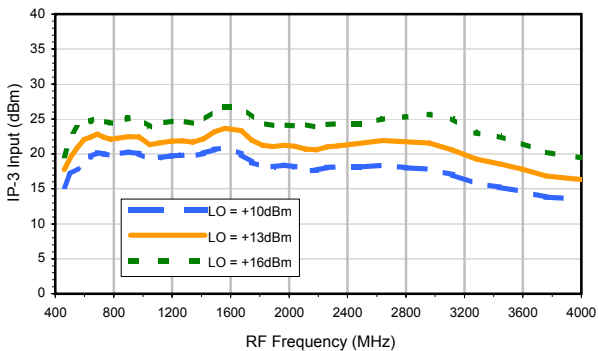
Conversion Loss vs. IF @ RF=900 MHz



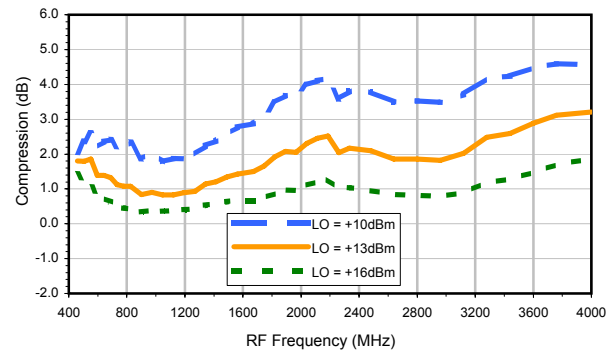
Conversion Loss vs. IF @ RF=2400 MHz



IP-3 Input



Compression @RF IN=+16 dBm

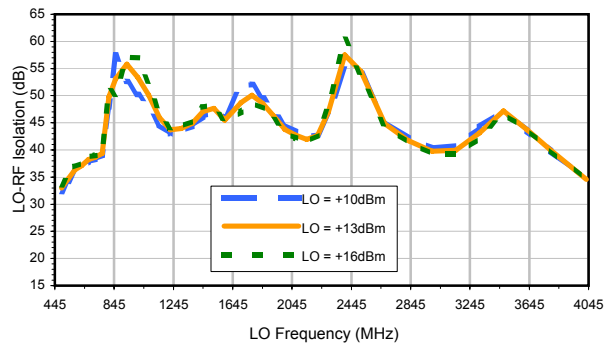


Frequency Mixer

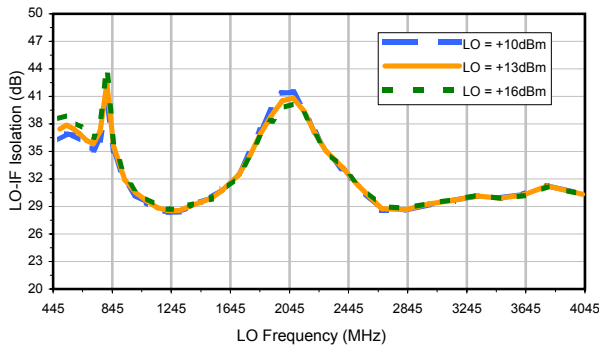
HJK-272MH+

Typical Performance Curves

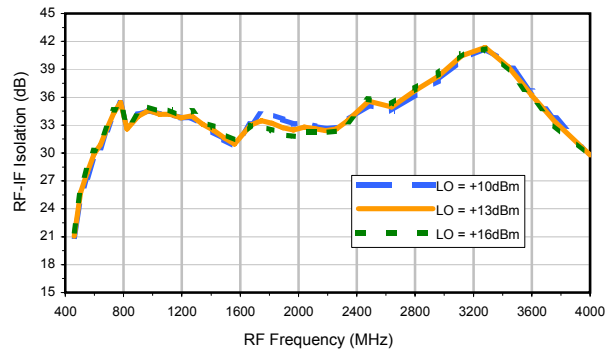
LO-RF Isolation



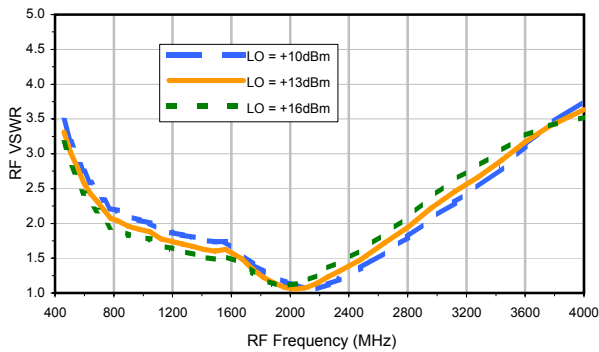
LO-IF Isolation



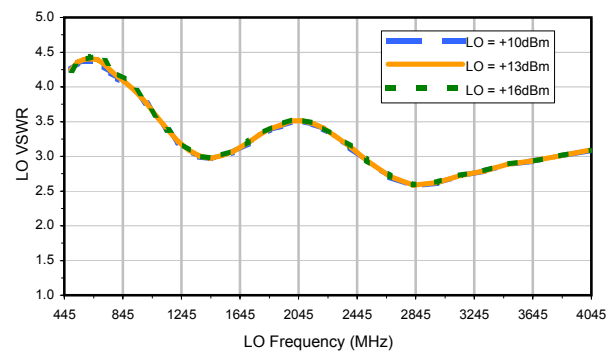
RF-IF Isolation



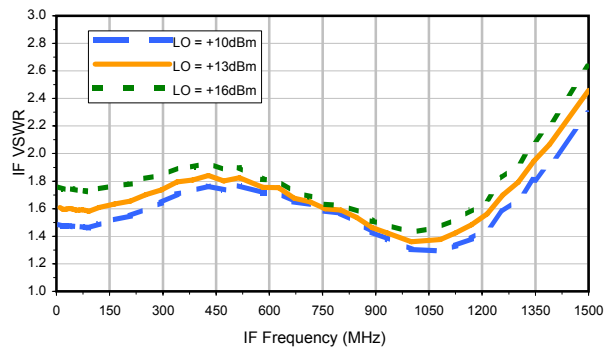
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	---	11.27	30.84	29.87	39.16	30.70	44.66	31.34	55.71	59.09	63.26
1	---	25.48	---	28.32	25.18	32.22	49.11	45.71	48.86	51.05	50.55	71.62
2	91.96	63.94	47.48	46.84	50.11	63.56	60.30	61.66	57.81	64.97	55.65	67.81
3	111.81	70.83	63.70	77.46	54.09	65.35	68.12	69.53	79.05	71.57	81.88	78.02
4	111.46	90.25	95.22	102.93	79.02	85.04	80.04	96.34	90.27	91.72	87.72	84.13
5	113.76	102.10	93.85	102.19	87.08	85.94	75.10	87.26	87.24	93.69	101.06	99.21
6	110.13	101.80	100.81	102.41	94.80	100.29	87.93	88.77	92.12	98.58	103.46	100.20
7	110.24	101.52	102.33	100.59	102.05	102.93	103.51	98.93	93.70	99.45	103.03	102.08
8	111.86	100.69	101.33	102.49	102.52	102.26	102.08	102.18	101.39	102.82	101.97	102.92
9	110.51	98.14	101.43	102.07	102.19	100.55	101.99	102.46	102.78	101.93	101.13	102.78
10	106.87	99.64	99.41	100.94	102.91	103.06	103.50	102.88	102.62	102.36	87.36	101.80
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1650 MHz; 0.00 dBm.
 LO IN: 1680 MHz; +13.00 dBm
 IF OUT: 30 MHz; -7.41 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	---	17.98	39.12	37.75	47.29	39.94	74.08	45.80	52.83	66.72	72.46
1	---	25.07	---	29.83	26.93	36.28	49.32	48.45	50.66	60.49	50.24	86.29
2	89.04	58.04	36.07	36.82	39.54	52.42	49.40	54.60	51.56	67.76	58.70	65.73
3	98.12	51.48	44.79	55.32	33.78	50.70	47.27	57.45	67.84	63.82	69.01	67.13
4	98.65	71.16	61.15	67.77	52.79	56.36	56.39	65.54	64.48	68.02	64.43	73.19
5	100.24	73.88	72.76	71.91	68.83	75.83	58.74	66.31	69.63	70.91	81.14	69.81
6	101.05	82.42	79.10	82.09	74.57	80.56	63.61	71.61	60.76	77.34	72.92	88.74
7	99.94	88.28	85.38	83.98	81.07	84.63	75.99	76.93	67.14	84.27	80.31	82.16
8	99.65	94.23	101.27	90.81	94.02	92.31	84.66	101.34	72.80	90.32	69.81	91.24
9	98.09	104.02	96.29	93.79	90.47	101.22	88.46	104.85	80.85	83.85	71.76	82.75
10	99.00	112.11	108.91	98.01	97.33	99.62	99.67	106.76	90.98	101.68	80.87	92.77
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1650 MHz; 10.00 dBm.
 LO IN: 1680 MHz; +13.00 dBm
 IF OUT: 30 MHz; 2.40 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