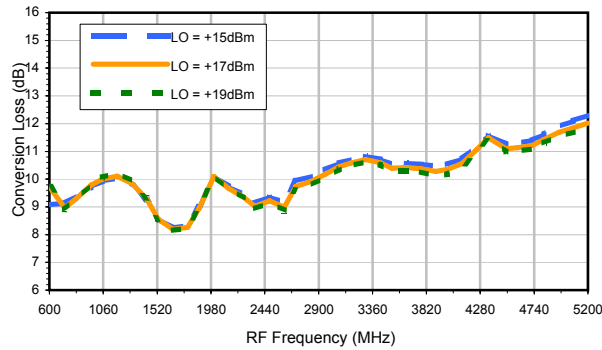
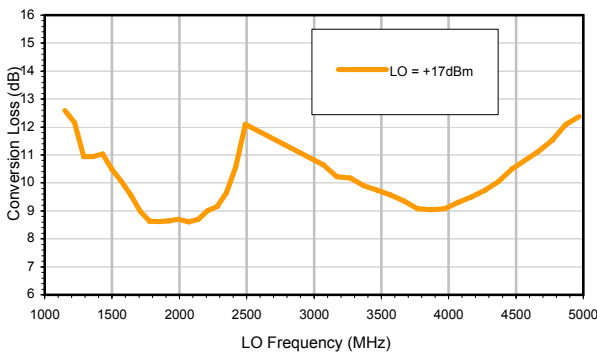


Typical Performance Curves

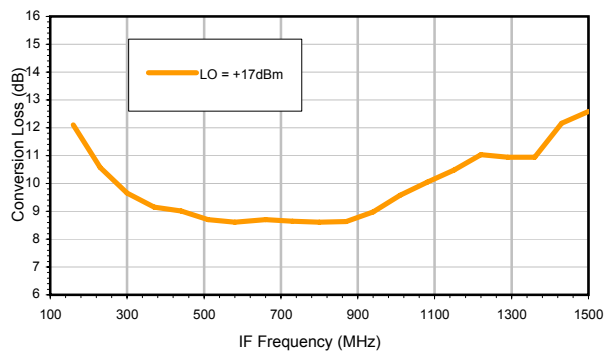
Conversion Loss @IF=1300.1 MHz



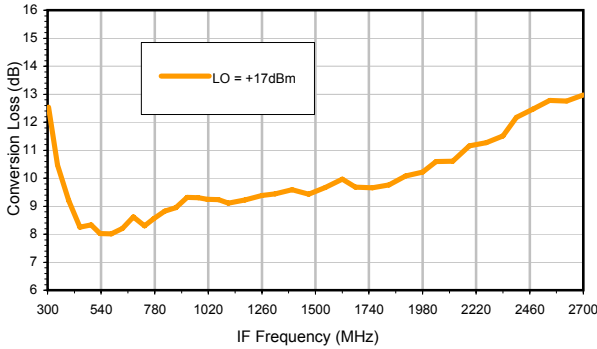
Conversion Loss vs. LO @ RF=2650.1 MHz



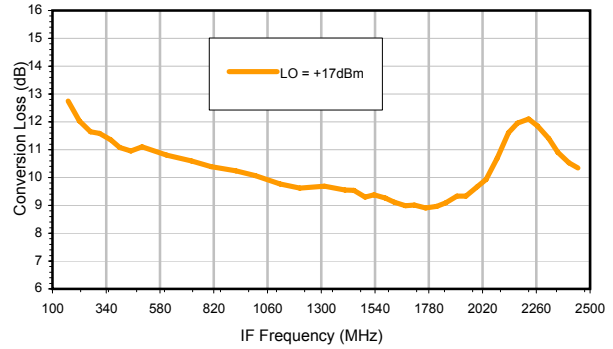
Conversion Loss vs. IF @ RF=2650.1 MHz



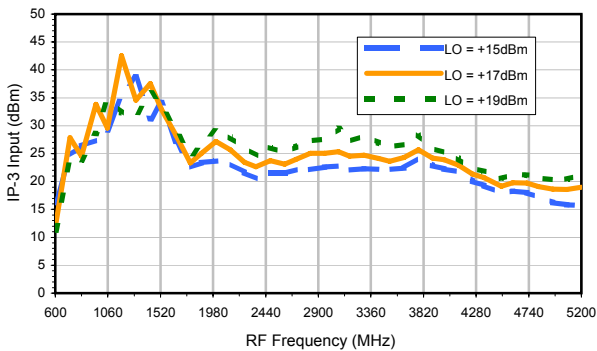
Conversion Loss vs. IF @ RF=800.1 MHz



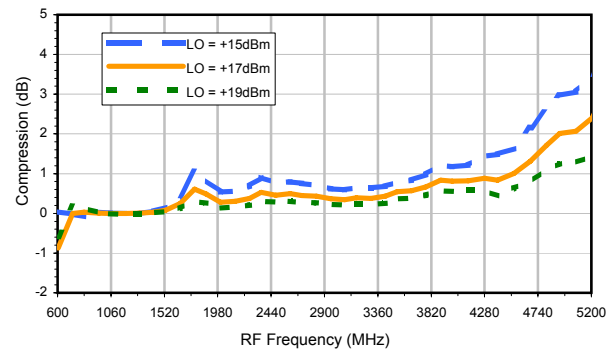
Conversion Loss vs. IF @ RF=4500.1 MHz



IP-3 Input



Compression @ RF IN=+14 dBm

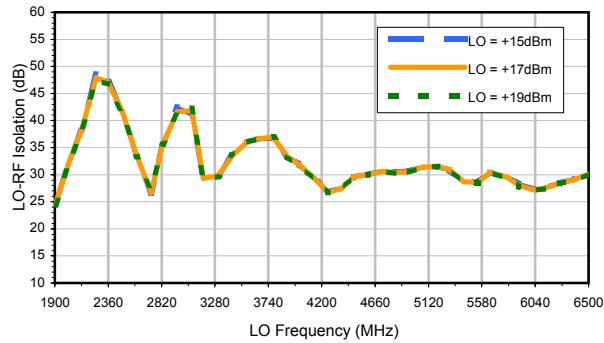


Frequency Mixer

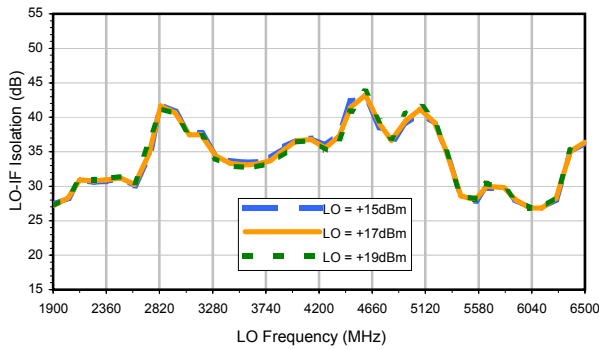
Typical Performance Curves

HJK-412H+

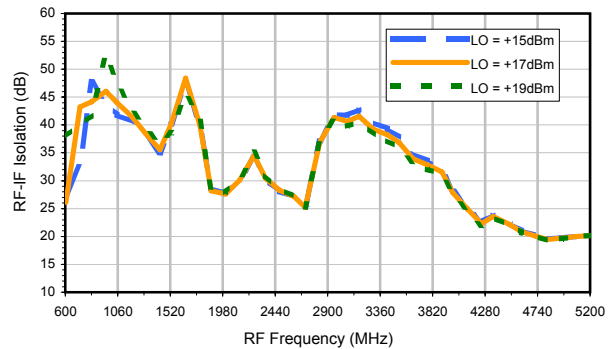
LO-RF Isolation



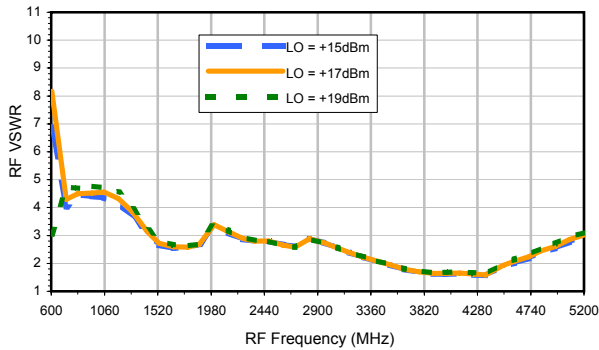
LO-IF Isolation



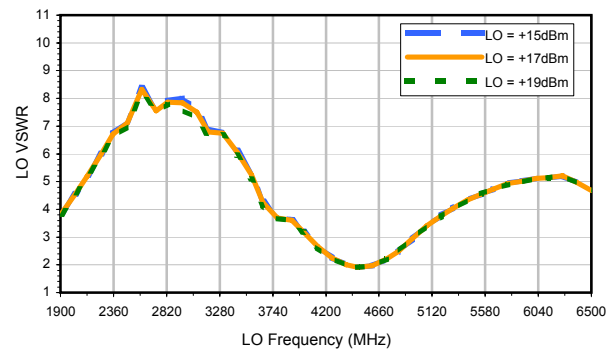
RF-IF Isolation



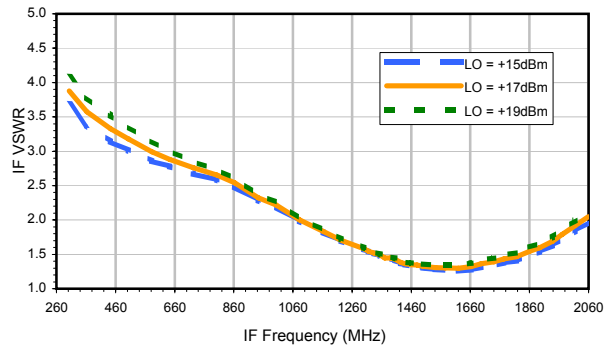
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	---	2.27	0.97	29.70	27.81	38.93	54.87	---	---	---	---
1	---	26.92	---	52.01	37.15	35.58	48.32	77.19	---	---	---	---
2	97.09	51.29	58.38	56.45	66.49	80.10	70.57	78.38	70.94	---	---	---
3	128.66	80.56	59.16	78.15	60.89	82.00	70.05	88.60	88.07	94.87	---	---
4	130.72	102.66	93.72	89.16	86.90	90.57	107.14	101.55	106.92	109.08	106.04	---
5	128.11	110.98	102.20	108.93	85.33	99.99	99.39	114.10	110.78	110.13	108.97	---
6	126.62	111.39	113.35	110.09	107.53	111.17	102.74	114.78	109.39	112.01	110.57	108.95
7	127.14	112.12	112.19	114.05	112.58	90.30	102.68	108.30	113.67	112.69	111.11	109.31
8	124.21	107.69	110.17	112.04	114.59	114.81	114.00	114.26	115.20	114.66	112.43	110.68
9	121.94	106.29	109.34	110.98	114.50	113.10	114.85	115.70	111.15	115.80	114.18	112.76
10	124.06	---	107.90	109.81	112.57	114.33	115.28	113.81	115.07	114.31	112.92	114.15
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 2900 MHz; 0 dBm.
 LO IN: 4200 MHz; +17.00 dBm
 IF OUT: 1300 MHz; -9.84 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	---	12.73	12.61	31.91	38.15	54.38	61.39	---	---	---	---
1	---	24.99	---	55.59	37.40	36.43	51.25	77.89	---	---	---	---
2	77.19	41.35	49.88	45.94	57.90	70.75	61.63	70.35	69.96	---	---	---
3	101.99	57.69	35.88	53.63	38.32	58.15	50.90	69.39	79.85	80.81	---	---
4	131.44	74.65	88.89	69.63	53.79	61.33	66.99	72.10	74.03	94.38	100.49	---
5	110.28	93.49	83.91	83.46	62.62	74.28	74.91	88.87	88.10	88.32	105.25	---
6	126.49	101.84	93.11	74.42	76.50	73.62	70.92	87.84	90.28	87.59	104.33	101.07
7	114.32	109.85	95.45	93.12	86.31	83.62	66.61	80.66	79.40	85.95	88.27	109.23
8	124.47	113.40	111.28	106.90	105.06	91.82	75.93	81.30	87.51	96.78	97.94	110.56
9	123.21	112.66	115.79	105.84	94.33	101.28	83.72	89.81	84.42	99.31	96.37	111.10
10	124.32	---	114.16	115.35	105.78	103.32	103.96	88.53	82.41	89.21	97.17	100.54
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 2900 MHz; +10 dBm.
 LO IN: 4200 MHz; +17.00 dBm
 IF OUT: 1300 MHz; -0.84 dBm

Notes: 1. All Harmonics are in (dBc) relative to IF OUTPUT