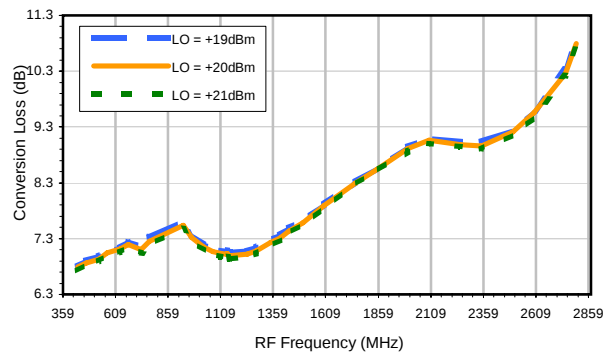


Frequency Mixer

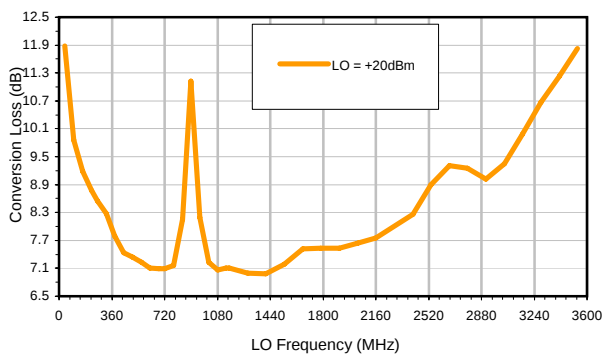
Typical Performance Curves

HJK-ED13513/2

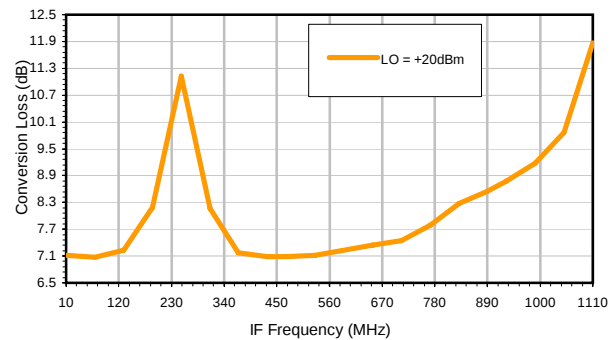
Conversion Loss @IF=50 MHz



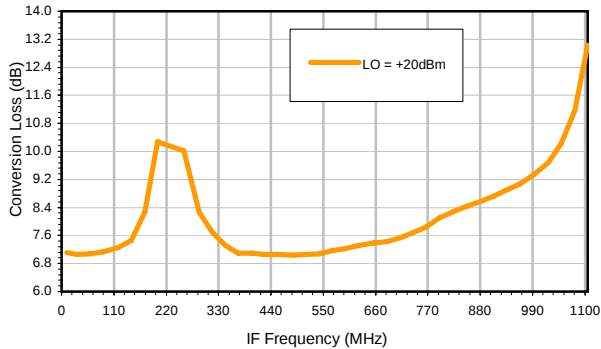
Conversion Loss vs. LO @ RF=1151.1 MHz



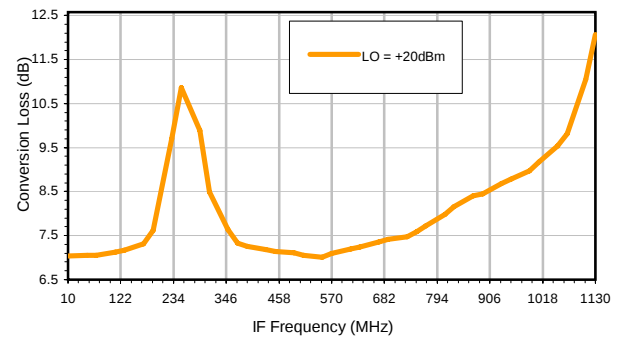
Conversion Loss vs. IF @ RF=1151.1 MHz



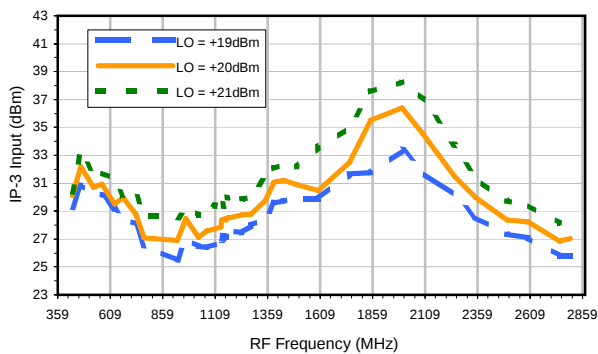
Conversion Loss vs. IF @ RF=1134.1 MHz



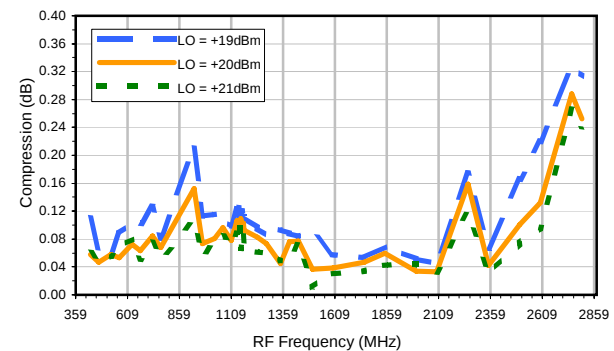
Conversion Loss vs. IF @ RF=1168.1 MHz



IP-3 Input

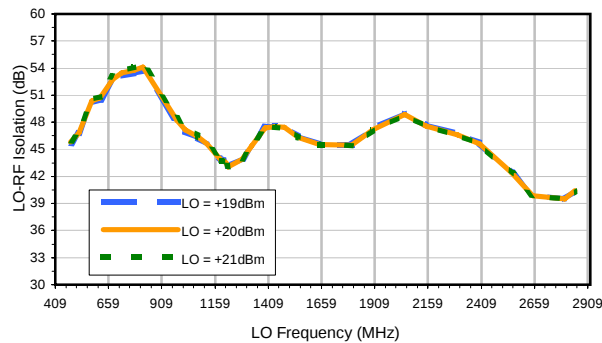


Compression @RF IN=+10 dBm

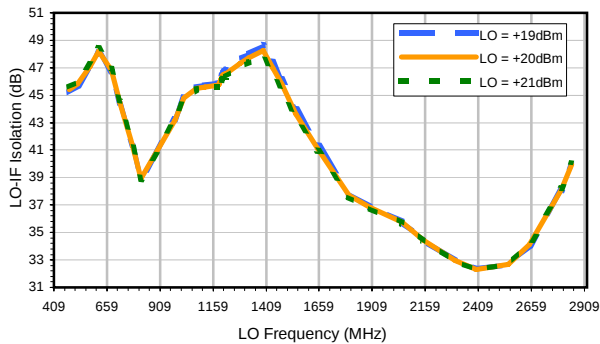


Typical Performance Curves

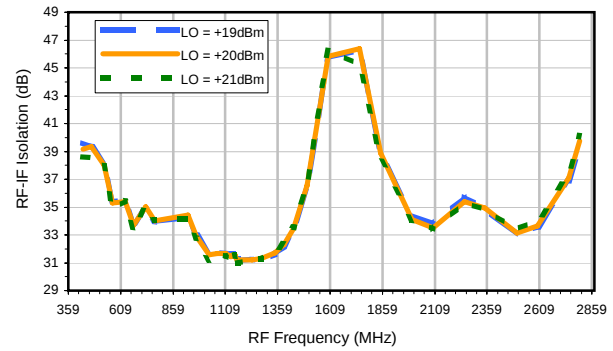
LO-RF Isolation



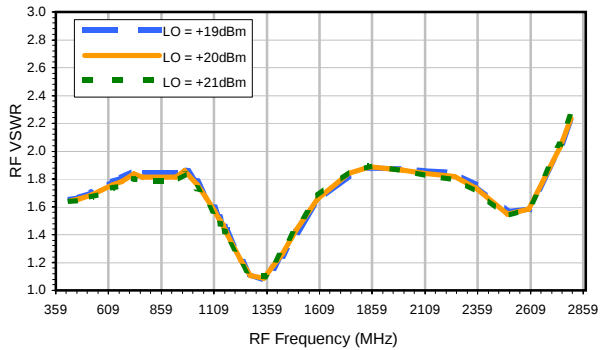
LO-IF Isolation



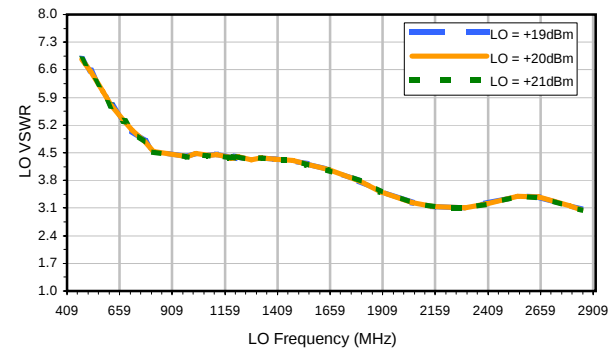
RF-IF Isolation



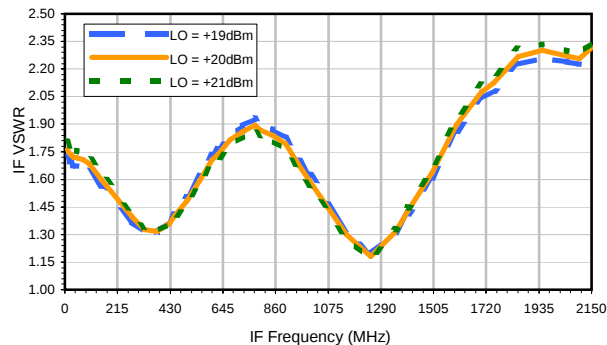
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	--	--	5.72	7.70	29.48	23.27	31.60	29.57	21.89	49.98	47.17	46.72
1	--	23.18	--	39.87	17.38	44.23	34.82	43.30	38.82	43.78	47.37	56.64
2	99.81	74.18	71.62	77.53	76.63	90.08	89.79	89.30	85.92	92.76	83.59	85.84
3	124.18	98.72	92.93	91.29	101.37	97.67	95.45	104.75	103.89	101.65	105.51	101.10
4	125.50	113.29	113.08	109.48	113.12	109.74	114.49	115.56	115.01	115.70	115.18	115.09
5	125.25	112.92	114.66	114.20	110.86	112.70	113.72	113.56	113.41	112.58	114.31	113.75
6	124.10	114.29	112.29	115.53	107.17	115.88	108.12	115.90	113.91	113.62	115.74	114.65
7	124.95	114.71	116.12	115.11	113.58	107.53	113.91	109.41	115.28	112.36	112.06	114.48
8	125.10	111.60	113.19	113.14	114.54	108.67	104.87	104.69	112.21	114.48	115.10	116.37
9	125.25	115.89	115.15	114.86	115.93	114.16	110.04	113.65	108.83	114.51	112.03	113.55
10	124.22	115.51	115.17	116.34	112.70	114.17	114.37	108.22	96.55	110.08	113.93	113.76
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1151.00 MHz; -5.00 dBm.
LO IN: 1700.00 MHz; +20.00 dBm
IF OUT: 549 MHz; -12.85 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	--	--	15.49	17.88	39.07	33.28	41.69	38.28	31.95	58.96	61.87	58.28
1	--	23.24	--	40.06	17.39	44.47	35.16	43.50	39.10	44.03	47.62	56.97
2	83.27	64.45	61.56	68.73	65.02	78.16	80.13	79.65	73.68	80.11	71.34	77.32
3	104.99	80.92	68.85	72.87	71.47	77.97	72.46	85.19	84.40	81.07	84.20	82.19
4	121.49	117.77	96.31	101.24	105.90	109.62	103.24	106.14	110.87	112.43	118.87	98.26
5	119.13	120.92	121.43	120.36	115.20	116.57	118.55	120.78	122.96	122.07	123.37	123.95
6	119.00	123.13	121.55	121.88	115.95	121.92	116.09	120.63	121.20	123.27	123.30	120.58
7	119.99	123.13	122.86	120.49	121.72	111.96	120.36	116.60	121.31	121.11	124.33	122.87
8	118.92	122.91	121.41	118.20	120.76	118.52	115.15	117.67	116.85	123.35	120.72	121.54
9	118.72	122.13	121.77	121.37	121.06	122.93	115.55	121.83	112.03	121.84	121.34	122.74
10	120.08	122.00	122.73	121.51	122.57	118.47	120.31	113.34	117.48	114.80	121.56	122.11
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1151.00 MHz; 5.00 dBm.
LO IN: 1700.00 MHz; +20.00 dBm
IF OUT: 549 MHz; -2.87 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