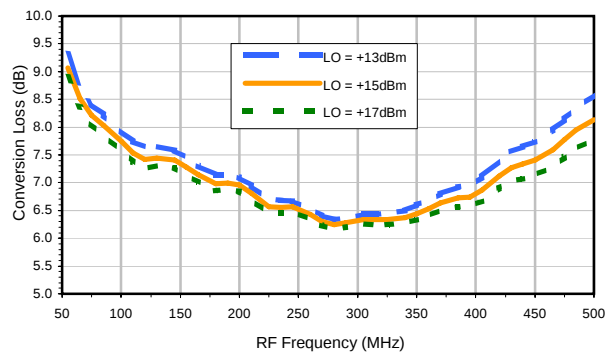
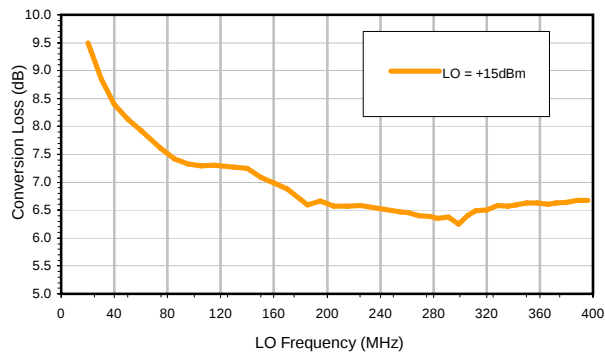


Typical Performance Curves

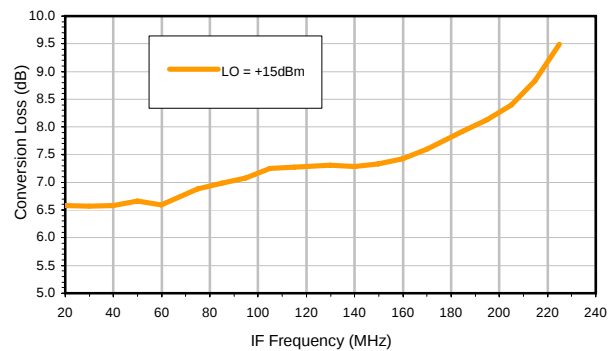
Conversion Loss @IF=30 MHz



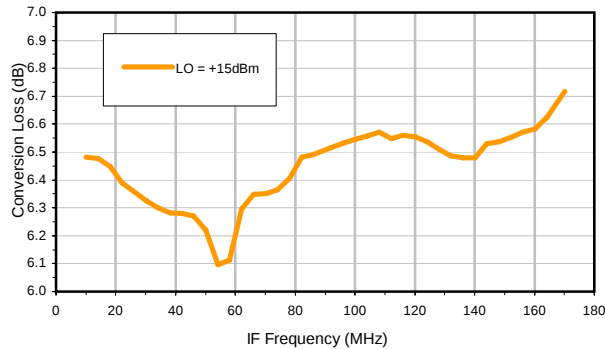
Conversion Loss vs. LO @ RF=245 MHz



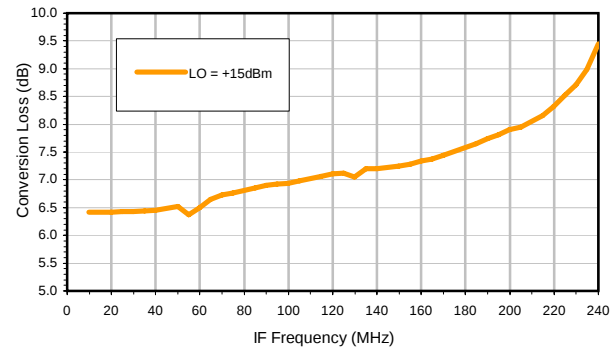
Conversion Loss vs. IF @ RF=245 MHz



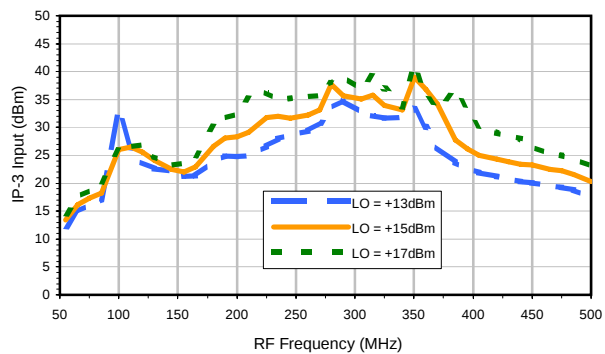
Conversion Loss vs. IF @ RF=230 MHz



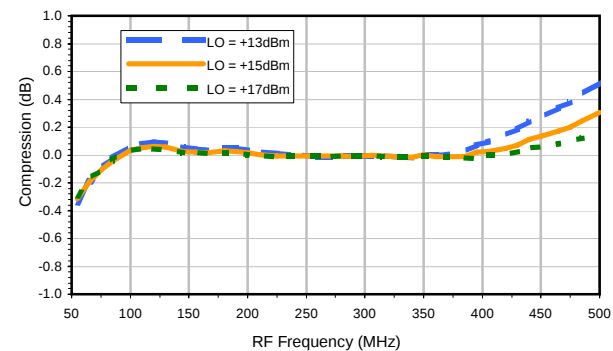
Conversion Loss vs. IF @ RF=260 MHz



IP-3 Input



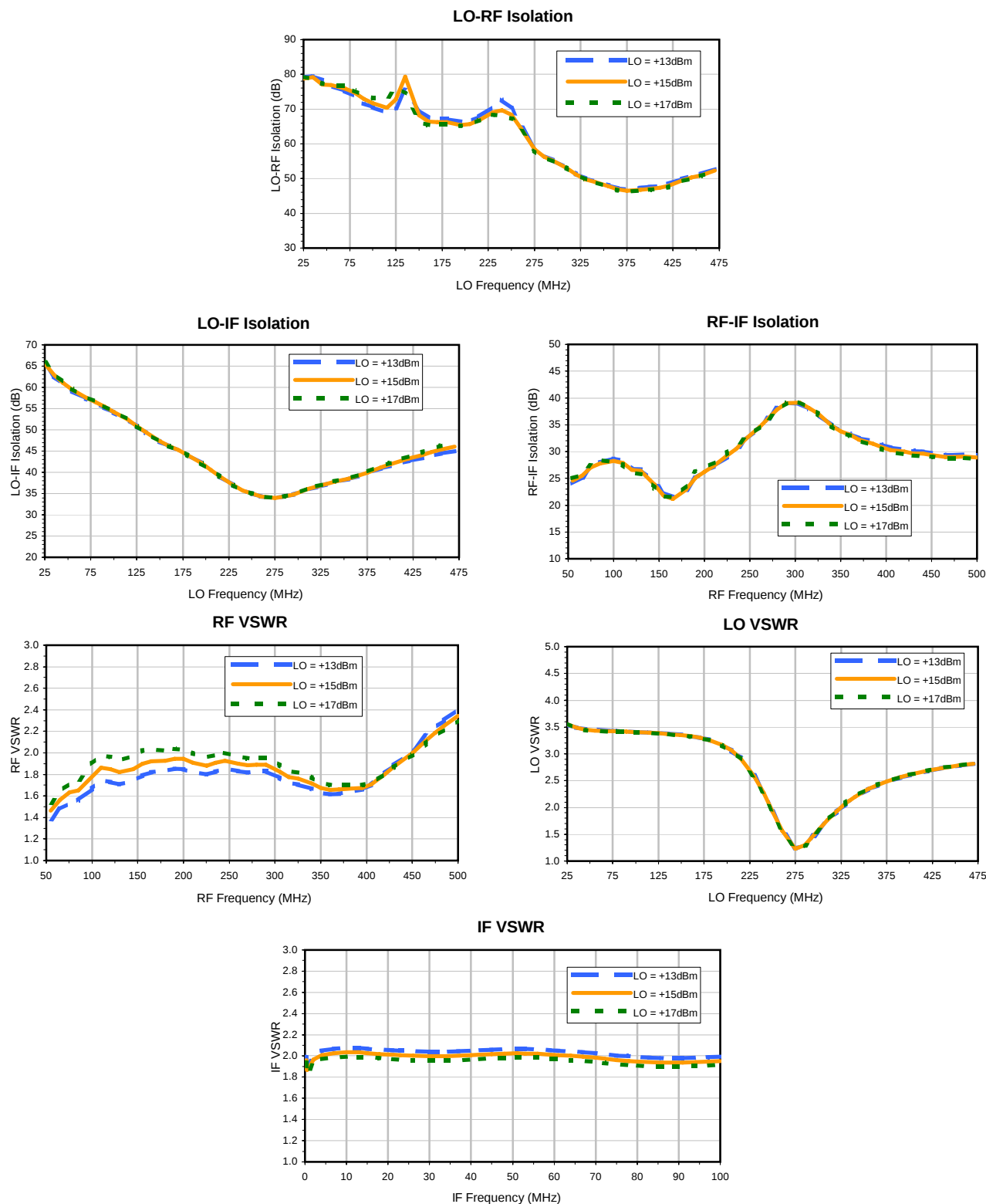
Compression @RF IN=+17 dBm



Frequency Mixer

Typical Performance Curves

HJK-ED14405/1



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IF/RF MICROWAVE COMPONENTS

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	---	2.83	20.59	16.97	9.36	18.93	20.21	19.94	30.79	24.04	42.42
1	---	25.23	---	29.08	10.09	29.97	21.76	36.90	30.64	37.77	38.31	39.74
2	119.22	68.88	71.69	77.62	73.43	75.39	79.92	73.14	81.98	85.33	84.46	87.30
3	132.43	99.88	97.36	96.30	95.26	98.71	88.97	100.98	95.03	99.17	99.19	99.39
4	131.26	101.27	99.22	95.02	99.18	84.91	96.70	87.13	99.30	95.24	100.80	96.56
5	132.74	100.01	101.22	99.81	99.05	98.64	94.03	97.03	96.08	99.64	101.24	102.86
6	132.37	100.78	100.69	99.22	101.40	99.36	97.47	91.59	98.06	79.95	97.87	101.66
7	130.54	100.00	99.17	100.19	99.71	100.30	99.72	97.75	95.40	97.24	93.32	97.26
8	130.99	98.36	98.87	100.09	99.75	100.48	102.01	100.32	100.31	95.08	95.97	92.07
9	130.71	99.33	100.06	99.56	102.02	100.78	98.76	100.13	96.00	101.63	89.10	98.20
10	130.09	100.25	99.05	100.03	99.81	100.44	100.34	101.06	101.32	101.85	99.81	96.24
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 245 MHz; -15 dBm.
LO IN: 215 MHz; +15.00 dBm
IF OUT: 30 MHz; -21.64 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	---	12.84	30.99	26.99	19.50	29.05	30.32	29.96	40.34	33.89	54.33
1	---	25.23	---	29.09	10.11	29.94	21.86	36.97	30.72	37.76	38.59	39.77
2	108.13	58.74	61.79	66.70	63.59	65.88	71.35	63.16	72.49	75.15	74.60	76.96
3	122.78	90.94	73.88	87.88	80.80	84.73	74.05	83.56	73.56	98.07	77.72	108.49
4	122.04	106.52	110.69	95.86	105.23	85.14	102.33	86.85	100.58	105.93	103.28	110.88
5	120.96	110.68	109.23	110.28	101.32	98.39	94.52	100.46	95.45	105.52	105.41	110.76
6	122.32	111.50	109.89	110.71	111.14	102.82	107.93	92.51	107.96	87.71	104.31	109.94
7	119.70	111.17	109.56	107.98	110.15	108.90	107.47	105.35	101.67	98.66	100.39	101.46
8	121.30	109.44	109.26	111.55	110.14	109.82	109.55	110.03	101.96	98.53	102.75	98.70
9	120.69	110.52	108.84	109.56	109.72	110.64	108.75	111.47	97.94	105.52	89.25	99.45
10	121.43	109.12	110.61	108.86	109.05	110.59	109.34	111.03	111.14	110.75	108.94	102.67
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 245 MHz; -5 dBm.
LO IN: 215 MHz; +15.00 dBm
IF OUT: 30 MHz; -11.59 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 represent the Harmonics level of the RF input signal to the mixer.

