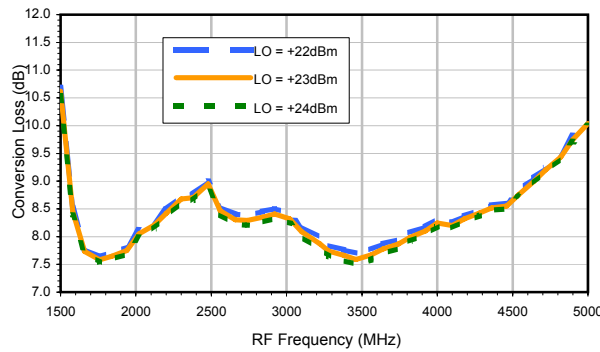


Frequency Mixer

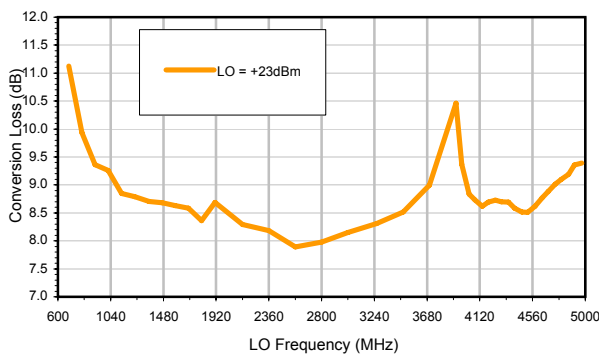
LAVI-452VH+

Typical Performance Curves

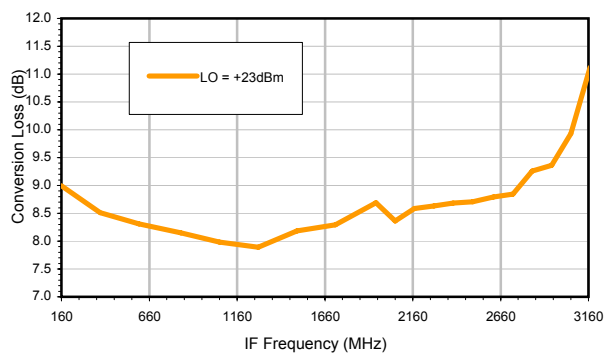
Conversion Loss @IF=850 MHz



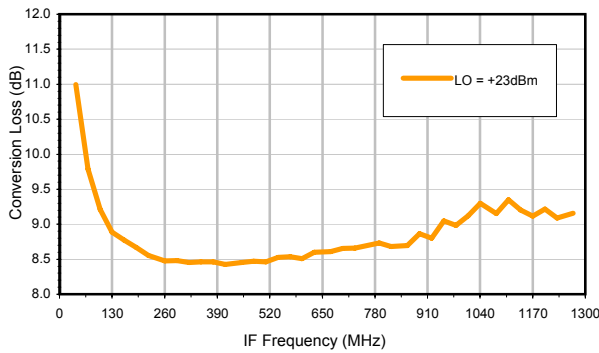
Conversion Loss vs. LO @ RF=3860 MHz



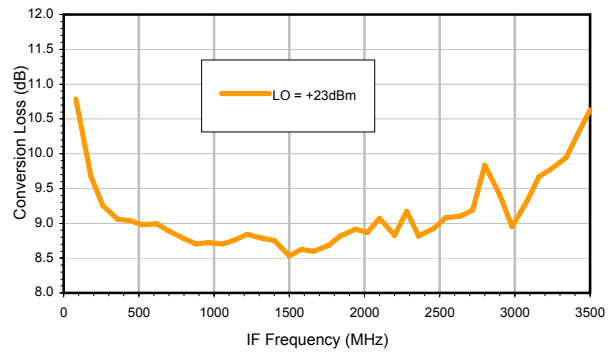
Conversion Loss vs. IF @ RF=3860 MHz



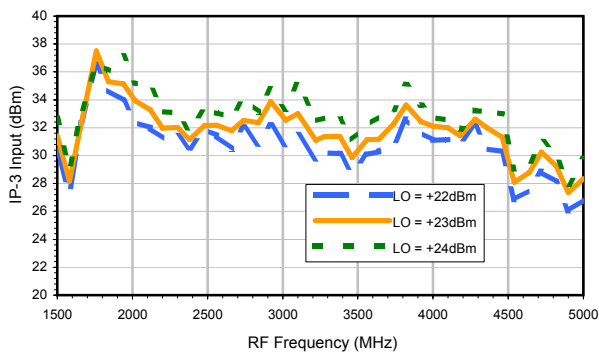
Conversion Loss vs. IF @ RF=3220 MHz



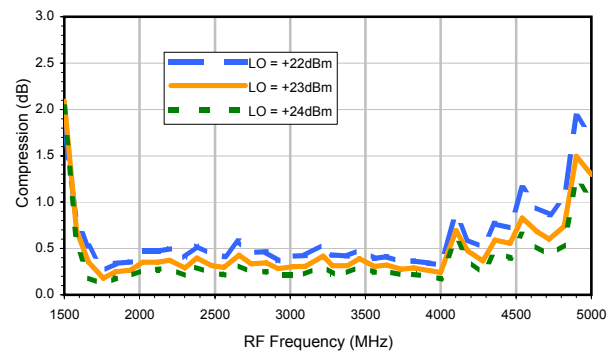
Conversion Loss vs. IF @ RF=4500.1 MHz



IP-3 Input



Compression @RF IN=+20 dBm

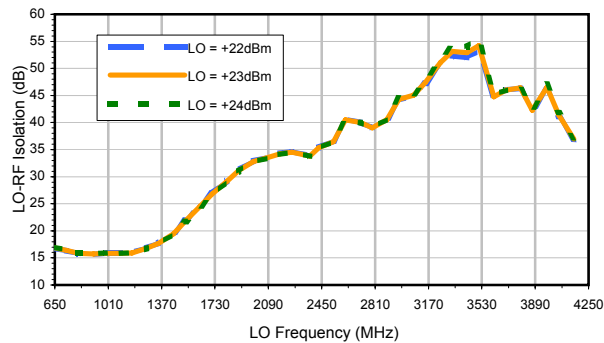


Frequency Mixer

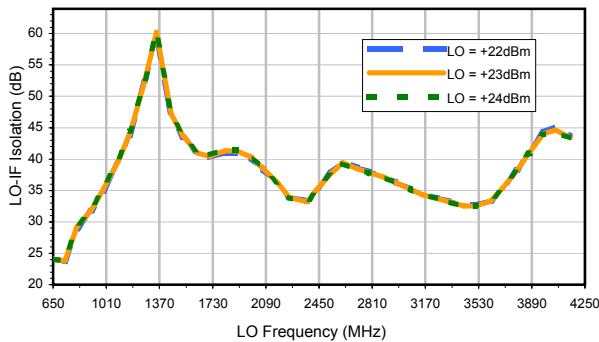
LAVI-452VH+

Typical Performance Curves

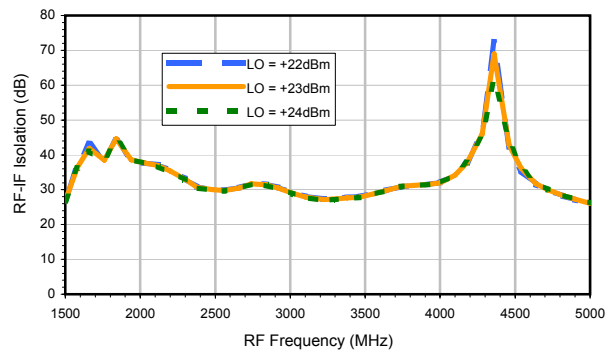
LO-RF Isolation



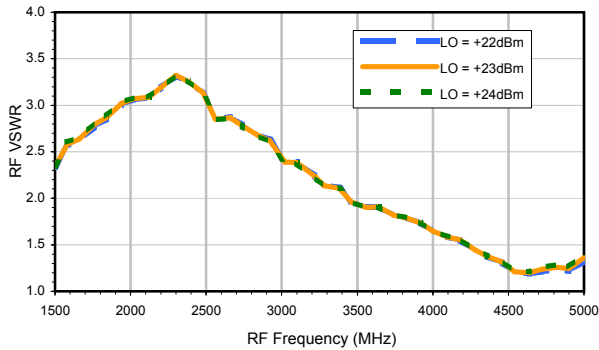
LO-IF Isolation



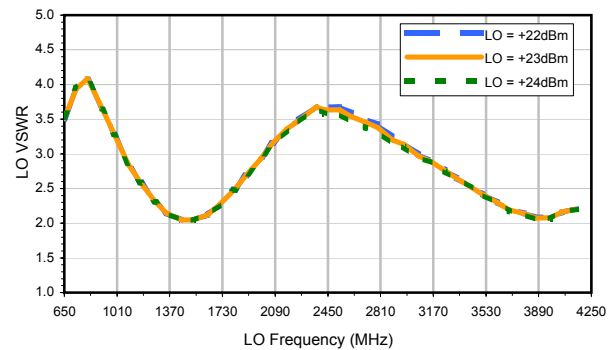
RF-IF Isolation



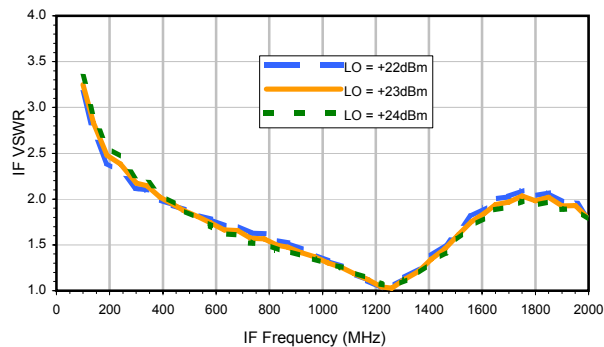
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	---	6.69	3.08	36.83	36.46	34.24	65.88	39.14	56.80	---	---
1	---	34.65	---	30.55	23.74	40.09	44.19	47.16	67.29	68.51	82.29	76.17
2	117.63	52.51	65.78	73.78	67.59	65.61	69.32	66.06	95.29	88.27	83.01	95.97
3	125.87	102.86	85.65	82.33	73.60	71.63	82.03	88.02	102.19	95.28	111.69	109.31
4	121.36	112.48	113.09	108.62	109.02	103.73	95.01	102.54	112.18	111.07	114.35	111.39
5	119.55	111.79	111.26	114.56	115.01	115.21	110.84	116.73	106.21	114.02	114.16	112.78
6	117.26	106.98	107.75	109.41	111.39	115.75	116.83	115.34	114.79	116.52	115.37	115.03
7	116.97	---	103.37	107.64	110.65	112.65	114.07	114.36	112.19	115.61	118.09	113.42
8	117.51	---	---	105.04	108.83	111.85	111.57	114.53	113.92	115.18	113.05	115.90
9	116.47	---	---	---	103.13	109.14	109.28	107.66	112.88	113.50	115.13	116.93
10	116.01	---	---	---	---	---	106.53	110.23	110.90	110.87	114.74	114.18
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 3860 MHz; 0 dBm.
 LO IN: 3010 MHz; +23.00 dBm
 IF OUT: 850 MHz; -7.51 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	---	15.80	12.85	42.28	48.39	45.27	72.30	50.03	67.06	---	---
1	---	34.90	---	30.21	23.84	39.48	44.47	47.64	67.55	68.84	86.42	77.37
2	102.61	41.76	56.69	72.41	61.13	55.89	56.78	55.72	82.51	79.51	73.78	89.74
3	118.34	83.08	64.16	63.52	52.33	52.81	60.48	66.64	77.14	75.47	93.12	89.60
4	115.53	104.26	96.99	77.65	83.35	76.34	68.46	78.37	83.49	87.63	93.62	118.50
5	114.97	111.00	116.28	95.54	92.83	88.91	77.19	72.66	71.20	76.64	84.75	93.18
6	110.71	114.91	119.09	117.60	111.82	111.98	102.00	94.12	92.06	87.88	91.71	110.60
7	110.32	---	115.70	117.18	120.60	121.67	108.55	112.14	98.49	88.98	89.74	86.28
8	109.10	---	---	114.51	118.24	121.22	121.03	123.19	125.43	114.32	107.69	102.54
9	107.76	---	---	---	116.15	117.14	120.25	119.02	120.61	124.83	121.95	106.06
10	110.78	---	---	---	---	---	116.53	118.85	121.41	121.98	124.12	123.49
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 3860 MHz; 10 dBm.
 LO IN: 3010 MHz; +23.00 dBm
 IF OUT: 850 MHz; 2.48 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.