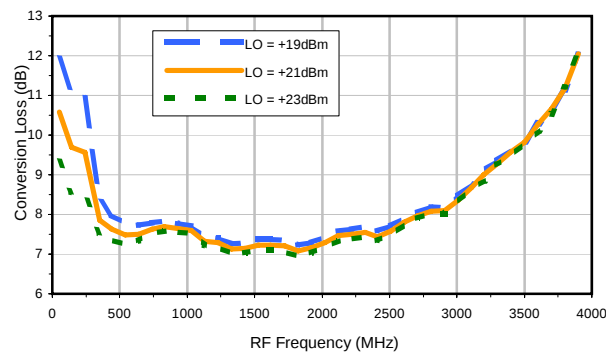


Frequency Mixer

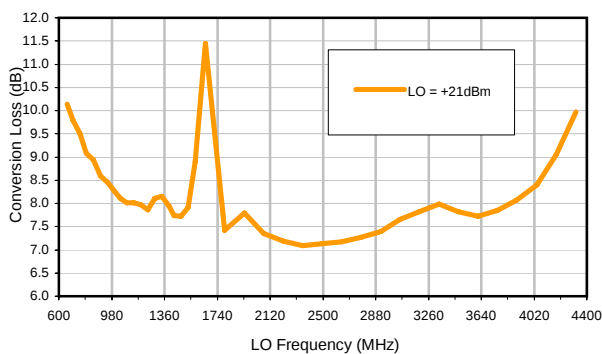
LAVI-ED14082/3

Typical Performance Curves

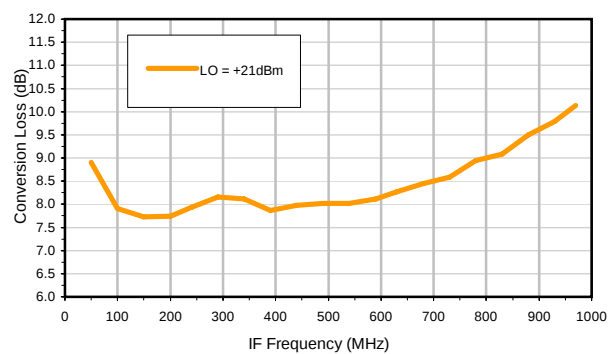
Conversion Loss @IF=540 MHz



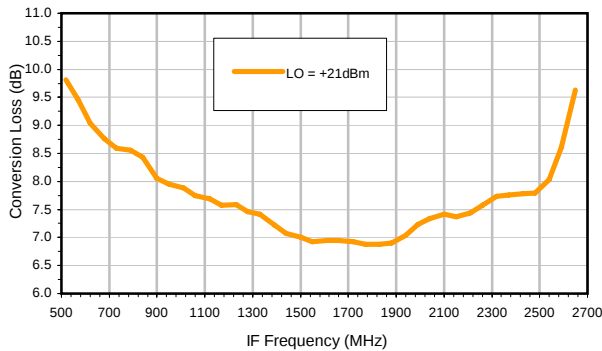
Conversion Loss vs. LO @ RF=1630.1 MHz



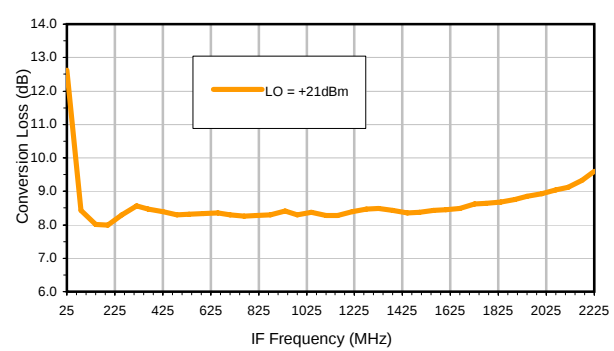
Conversion Loss vs. IF @ RF=1630.1 MHz



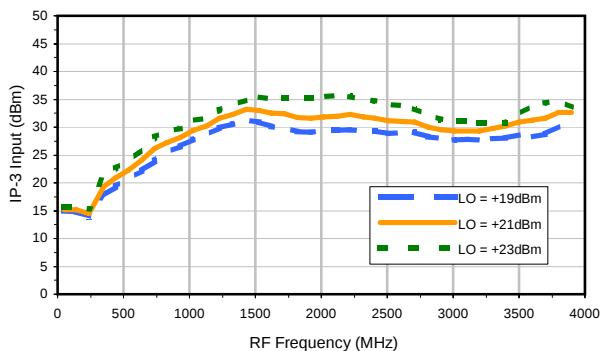
Conversion Loss vs. IF @ RF=260.1 MHz



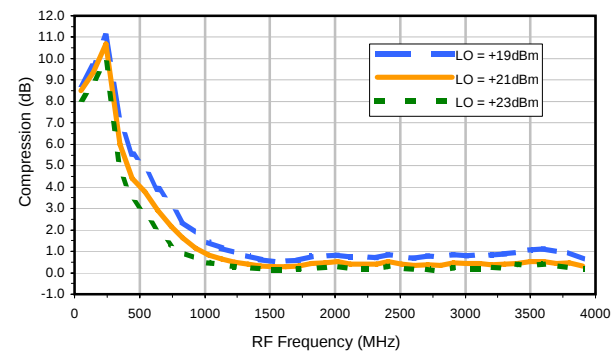
Conversion Loss vs. IF @ RF=3000.1 MHz



IP-3 Input



Compression @RF IN=+20 dBm



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IF/RF MICROWAVE COMPONENTS

REV. X1

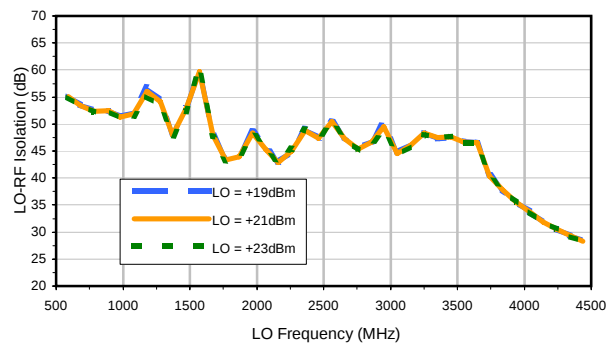
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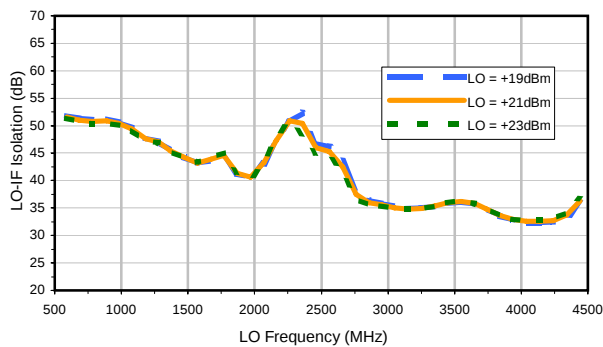
Page 1 of 3

Typical Performance Curves

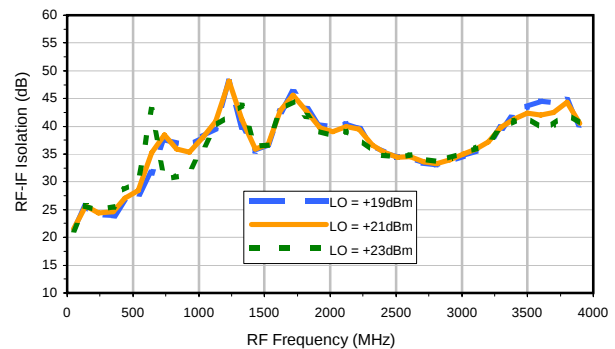
LO-RF Isolation



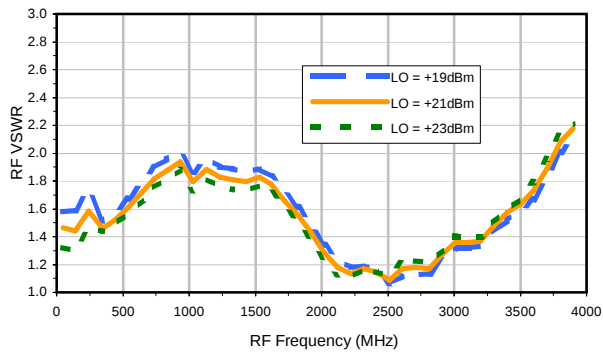
LO-IF Isolation



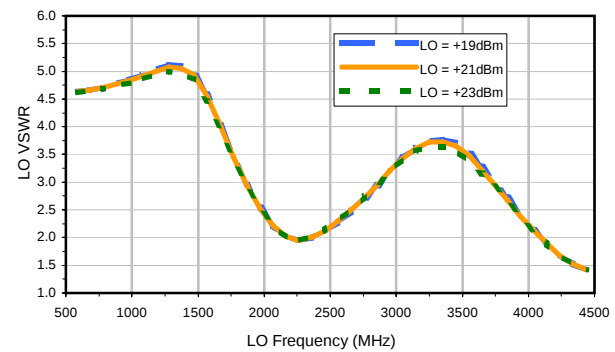
RF-IF Isolation



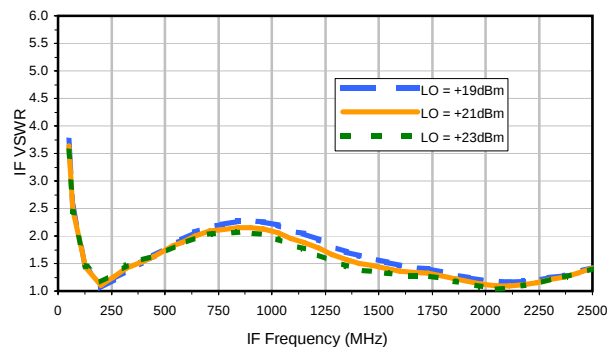
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	---	12.50	2.32	20.72	15.05	40.92	60.61	27.23	48.64	45.31	51.26
1	---	34.54	---	40.43	19.08	51.35	35.94	50.38	46.39	58.15	66.96	72.66
2	102.60	65.62	68.84	68.10	77.22	73.54	80.87	78.20	89.59	84.54	83.02	103.99
3	125.28	94.52	83.83	89.34	87.92	96.42	109.50	106.76	112.05	109.32	106.71	108.18
4	128.39	111.30	111.59	103.17	106.38	102.65	109.08	112.27	111.74	111.85	109.58	108.96
5	128.10	112.07	112.68	111.80	108.72	109.23	106.29	109.31	113.34	112.95	110.50	110.39
6	127.48	112.64	111.41	109.53	111.08	111.94	109.91	111.70	110.38	109.47	113.16	110.61
7	127.20	110.01	110.06	113.42	110.10	108.32	109.85	109.89	109.42	110.77	111.90	111.37
8	127.09	111.41	111.12	111.75	112.71	111.06	103.84	112.62	102.03	112.08	112.33	111.19
9	123.08	107.74	110.27	111.59	112.46	111.18	110.94	107.12	112.58	108.42	111.96	110.31
10	125.76	107.49	107.04	111.67	111.67	112.70	111.34	112.52	111.75	110.95	111.42	111.10
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1630 MHz; -5.00 dBm.
LO IN: 2170 MHz; +21.00 dBm
IF OUT: 540 MHz; -12.7 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	---	21.47	12.73	33.63	25.24	48.16	74.43	37.74	58.96	56.33	62.02
1	---	34.36	---	39.67	19.24	51.55	36.22	50.37	46.48	58.29	67.26	73.89
2	88.60	56.84	58.91	57.90	69.67	63.79	71.18	69.22	79.01	76.04	74.30	95.41
3	122.07	78.06	63.52	73.09	64.97	77.49	86.48	85.65	101.82	97.80	91.29	103.77
4	122.69	93.02	88.23	83.16	87.26	86.43	84.25	100.86	87.77	99.00	96.20	110.74
5	120.41	112.96	101.37	95.52	90.79	93.94	91.63	104.61	112.69	119.75	110.04	114.68
6	120.45	115.75	120.82	109.37	96.04	101.61	97.30	103.58	112.27	116.22	110.85	117.37
7	119.57	121.38	119.93	119.64	114.92	117.48	107.05	112.49	111.16	119.80	119.90	119.59
8	121.34	119.49	120.13	120.96	122.27	118.00	114.90	122.21	114.96	122.39	119.10	121.55
9	117.93	116.70	120.85	121.41	120.52	121.56	120.13	114.02	118.37	116.73	119.29	120.08
10	118.82	118.33	119.60	121.28	120.80	121.09	120.30	117.69	120.40	118.61	119.85	122.15
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1630 MHz; 5.00 dBm.
LO IN: 2170 MHz; +21.00 dBm
IF OUT: 540 MHz; -2.74 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