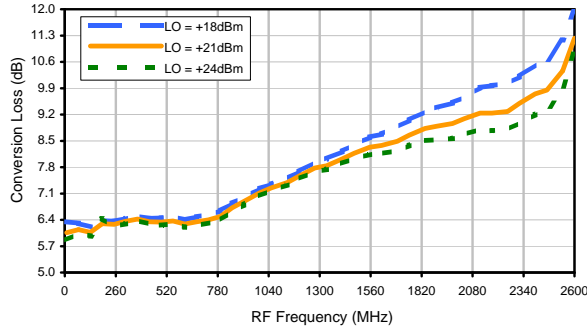


Frequency Mixer

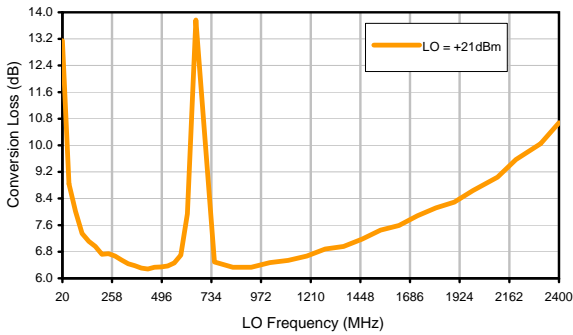
LAVI-10VH+

Typical Performance Curves

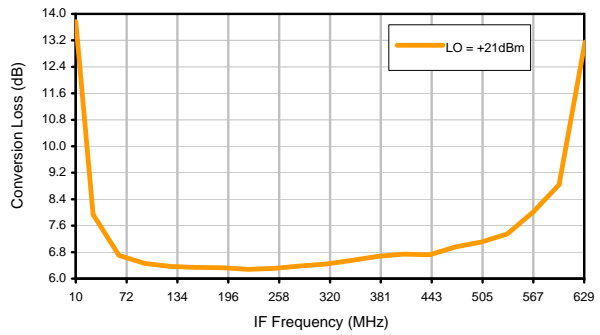
Conversion Loss @ IF=175MHz



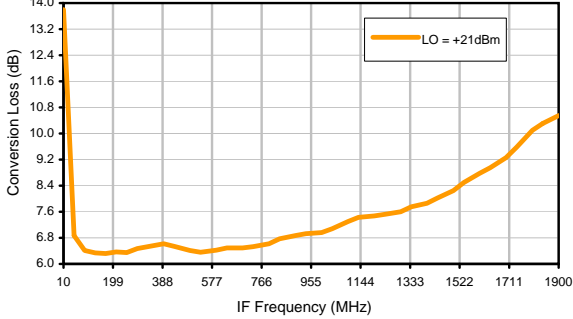
Conversion Loss vs. LO @ RF=650MHz



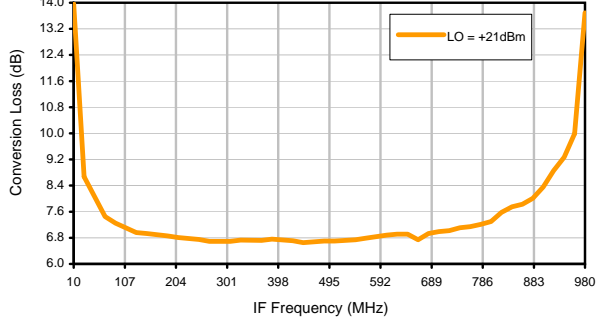
Conversion Loss vs. IF @ RF=650MHz



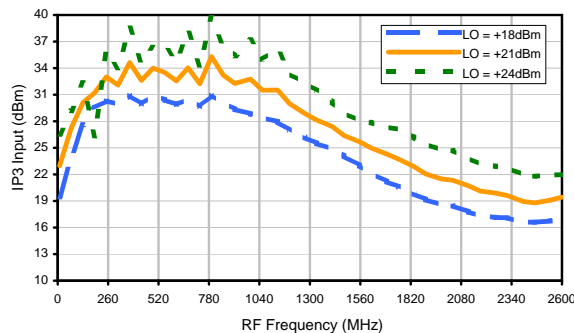
Conversion Loss vs. IF @ RF=300MHz



Conversion Loss vs. IF @ RF=1000.1MHz



IP3 Input

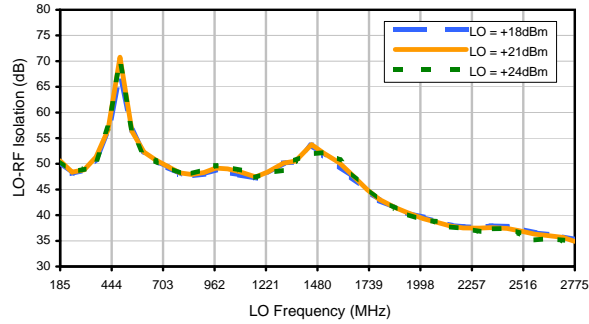


Frequency Mixer

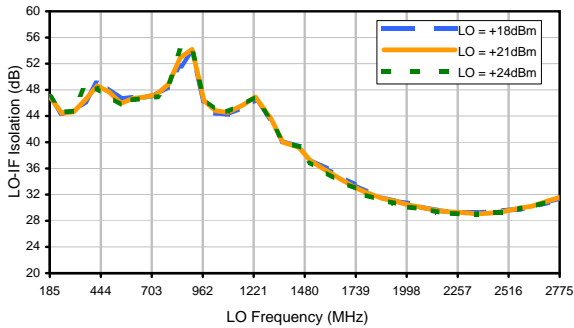
LAVI-10VH+

Typical Performance Curves

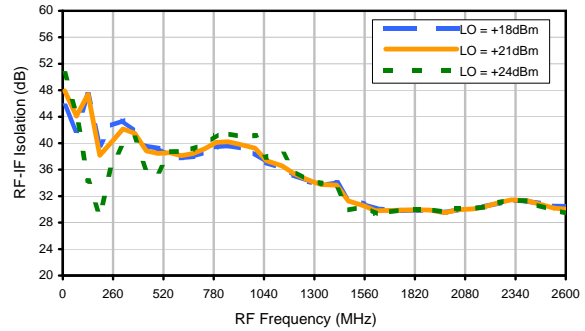
LO-RF Isolation



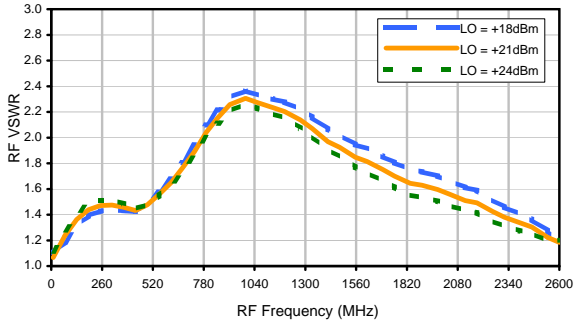
LO-IF Isolation



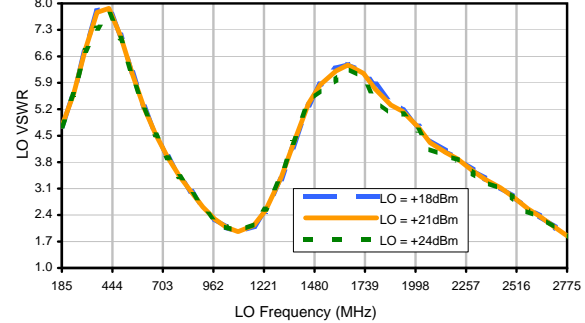
RF-IF Isolation



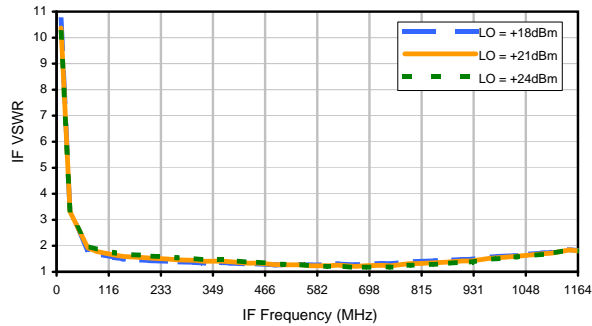
RF VSWR



LO VSWR



IF VSWR



Frequency Mixer

Harmonics Tables

LAVI-10VH+

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	27	35	40	35	40	44	41	58	59	51
1	-	30	+0	33	15	39	27	49	42	48	53	67
2	68	52	59	48	62	56	72	51	71	56	66	60
3	>90	82	62	84	59	83	62	80	70	82	74	80
4	>90	>90	>90	>90	>90	>90	88	>90	>90	83	90	>90
5	>90	>90	>90	90	>90	>90	85	>90	>90	88	89	>90
6	>90	>90	>90	>90	>90	88	>90	88	90	>90	>90	>90
7	>90	>90	>90	90	>90	>90	>90	>90	>90	>90	>90	89
8	>90	>90	>90	89	>90	>90	>90	>90	>90	>90	88	>90
9	>90	>90	>90	88	>90	88	>90	>90	>90	89	>90	85
10	>90	>90	>90	>90	>90	>90	>90	>90	>90	>90	89	>90
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 650 MHz; 5.00 dBm.
 LO IN: 825 MHz; +21.00 dBm
 IF OUT: 175 MHz; 0.03 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	25	43	43	36	47	43	50	54	69	53
1	-	30	+0	34	15	41	29	52	42	51	45	66
2	49	42	51	37	56	47	63	42	62	50	59	56
3	88	67	44	64	40	64	43	63	51	68	57	69
4	>90	69	86	65	75	62	75	63	79	61	88	65
5	>90	91	72	84	66	87	71	86	71	80	79	85
6	>90	83	86	84	96	76	92	75	97	77	90	80
7	>90	98	88	96	95	98	84	87	87	88	82	90
8	88	>99	97	>99	95	95	95	89	93	92	96	90
9	>90	>99	>99	>99	>99	>99	94	>99	94	97	99	94
10	>90	98	>99	98	93	>99	93	96	>99	93	98	96
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 650 MHz; 15.00 dBm.
 LO IN: 825 MHz; +21.00 dBm
 IF OUT: 175 MHz; 9.28 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.