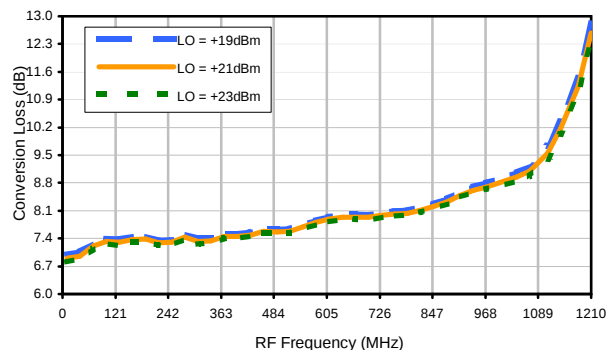


Frequency Mixer

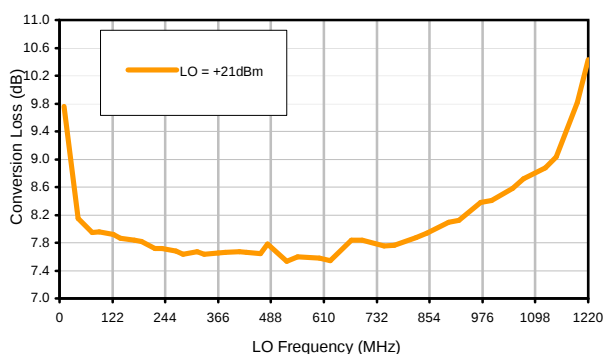
LAVI-ED12344A/1

Typical Performance Curves

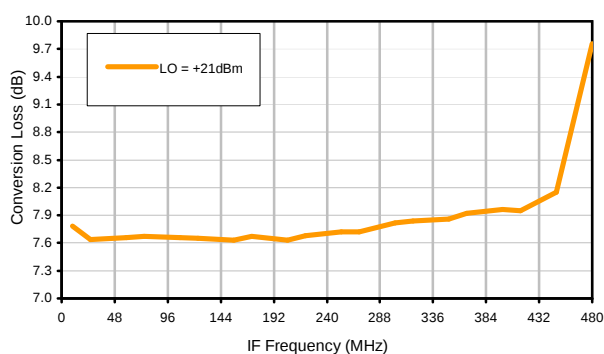
Conversion Loss @ IF=70MHz



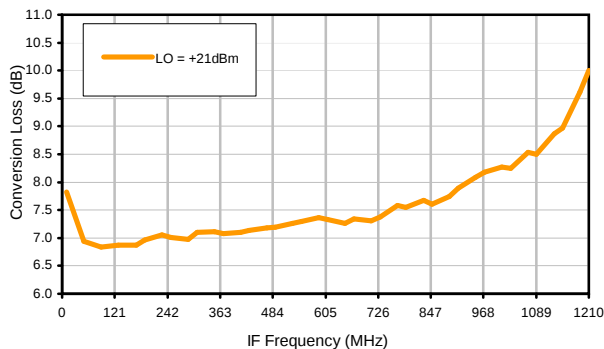
Conversion Loss vs. LO @ RF=490.1MHz



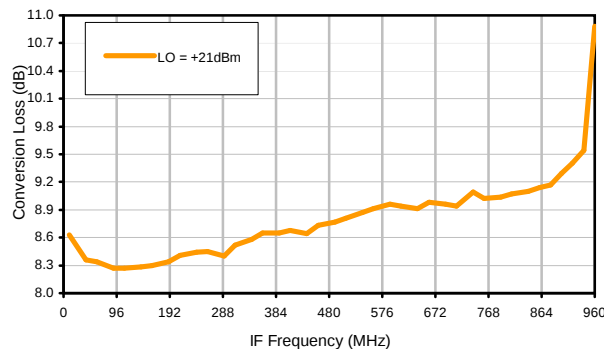
Conversion Loss vs. IF @ RF=490.1MHz



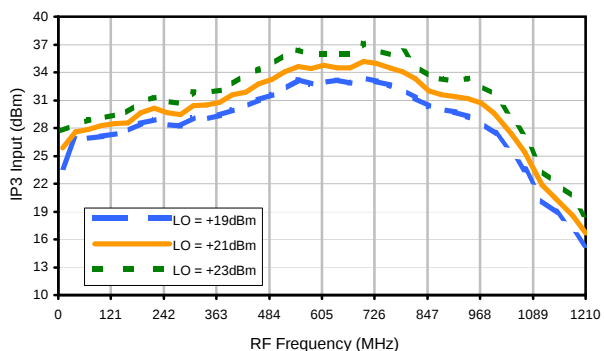
Conversion Loss vs. IF @ RF=10.1MHz



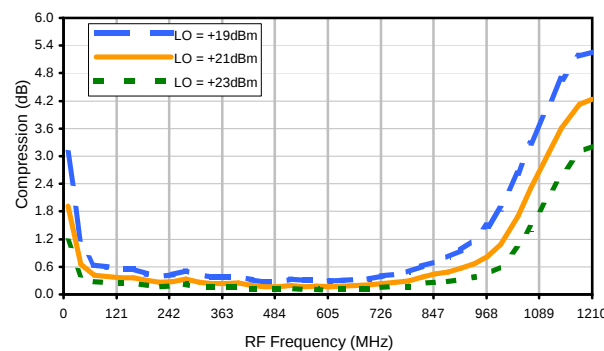
Conversion Loss vs. IF @ RF=970.1MHz



IP3 Input

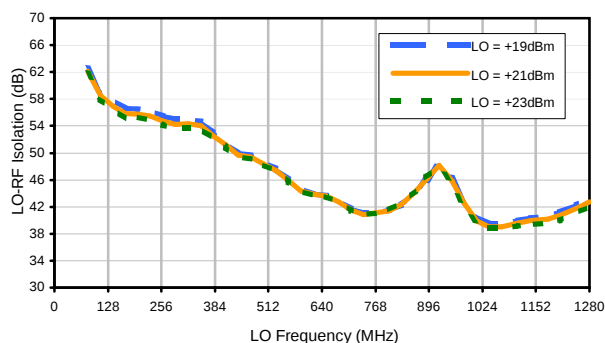


Compression @ RF IN=+20dBm

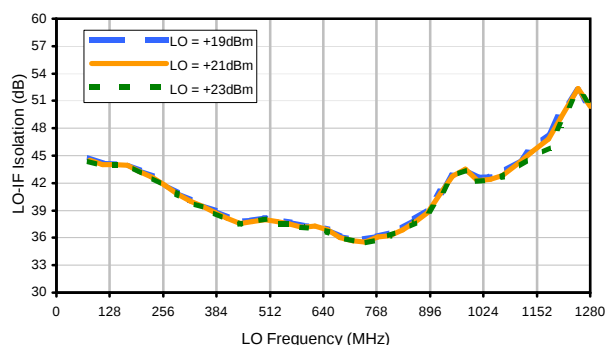


Typical Performance Curves

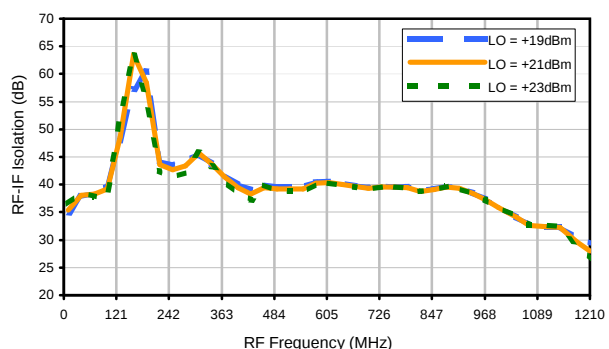
LO-RF Isolation



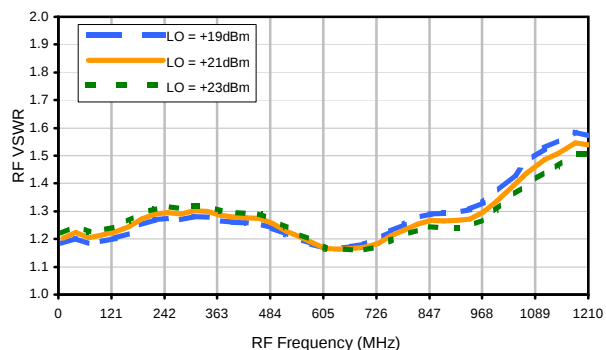
LO-IF Isolation



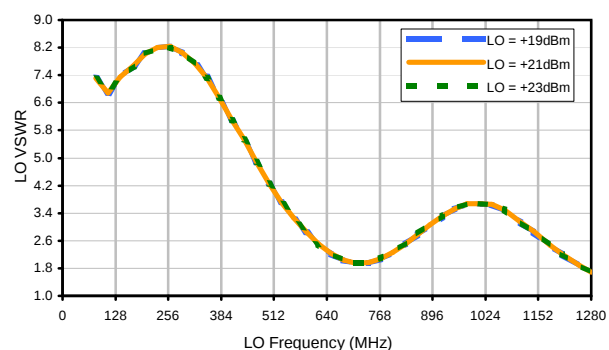
RF-IF Isolation



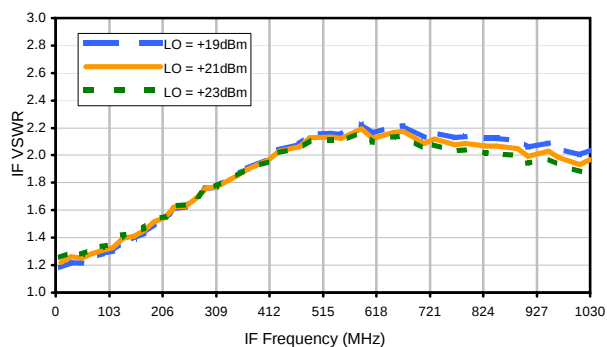
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	14	19	16	26	35	45	37	46	50	55
1	-	33	+0	37	12	42	22	44	33	46	41	51
2	55	61	63	63	63	55	54	54	55	56	57	58
3	83	86	68	82	65	81	69	79	72	80	78	84
4	>90	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
5	>90	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
6	>90	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
7	>90	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
8	>90	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
9	>90	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
10	>90	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions:

RF IN: 490.1 MHz; 5.00 dBm.

LO IN: 560.1 MHz; +21.00 dBm

IF OUT: 70 MHz; -2.95 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	24	27	25	34	44	52	43	52	46	57
1	-	33	+0	37	13	43	23	45	36	48	39	53
2	36	52	53	53	54	46	45	45	46	46	49	50
3	55	70	50	67	48	63	50	62	53	63	59	66
4	76	90	81	80	77	76	78	74	75	72	74	73
5	>90	94	76	92	76	86	75	84	80	85	79	89
6	>90	>96	>96	>96	95	>96	91	>96	91	>96	>96	>96
7	>90	>96	>96	>96	>96	>96	>96	>96	>96	92	>96	>96
8	>90	>96	>96	>96	>96	>96	>96	>96	94	>96	>96	>96
9	>90	>96	>96	>96	>96	>96	>96	92	>96	>96	>96	>96
10	>90	>96	>96	>96	>96	>96	>96	>96	>96	>96	>96	>96
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions:

RF IN: 490.1 MHz; 15.00 dBm.

LO IN: 560.1 MHz; +21.00 dBm

IF OUT: 70 MHz; 6.38 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.

REV. X2

LAVI-ED12344A/1

101012

Page 3 of 3



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS9100 CERTIFIED • RoHS compliant
P.O. Box 350186, Brooklyn, New York 11235-0008 (718) 934-4500 Fax (718) 332-4661



The Design Engineers Search Engine finds the model you need, instantly • For detailed performance specs & shopping online see

