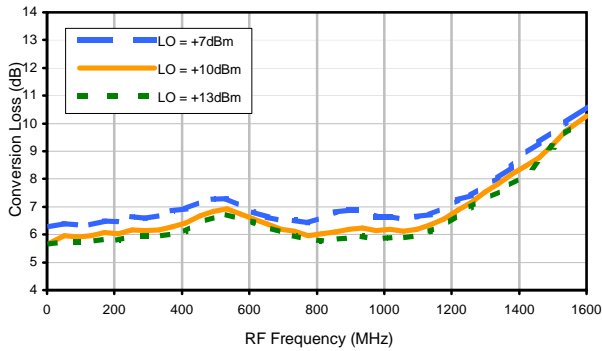


Frequency Mixer

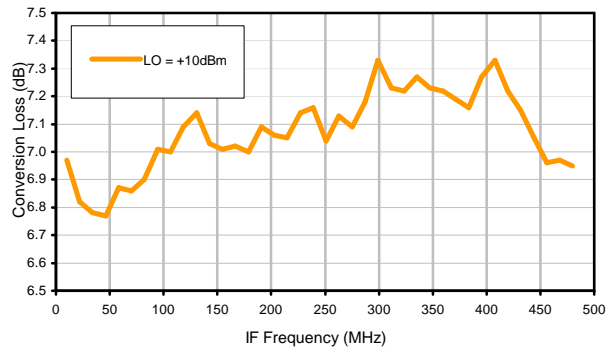
SBL-1XLH+

Typical Performance Curves

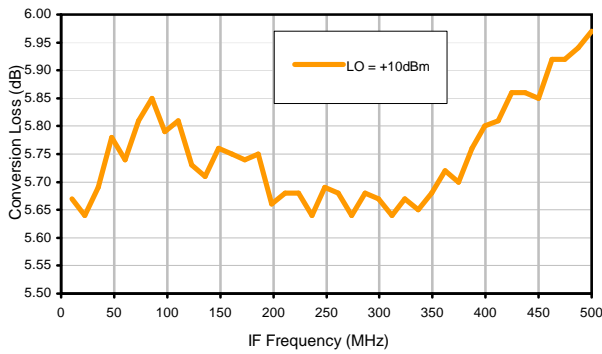
Conversion Loss @ IF=30MHz



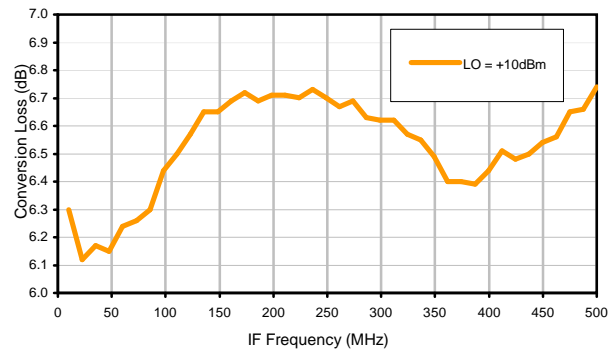
Conversion Loss vs. IF @ RF=500.1MHz



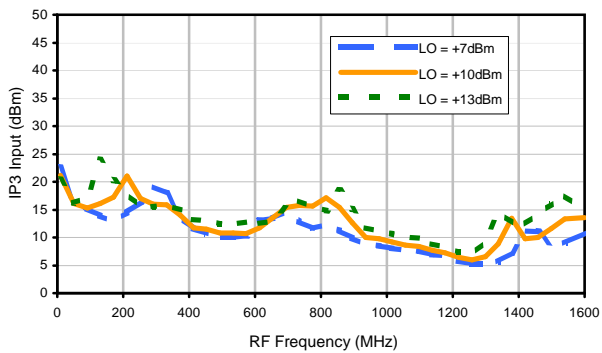
Conversion Loss vs. IF @ RF=10.1MHz



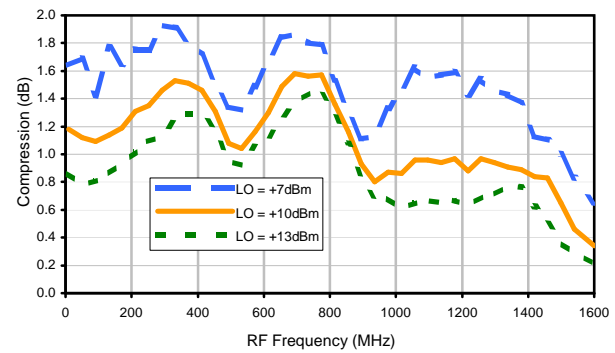
Conversion Loss vs. IF @ RF=1000.1MHz



IP3 Input

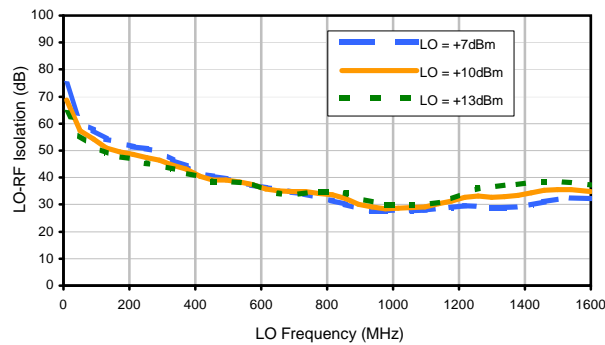


Compression @ RF IN=+5dBm

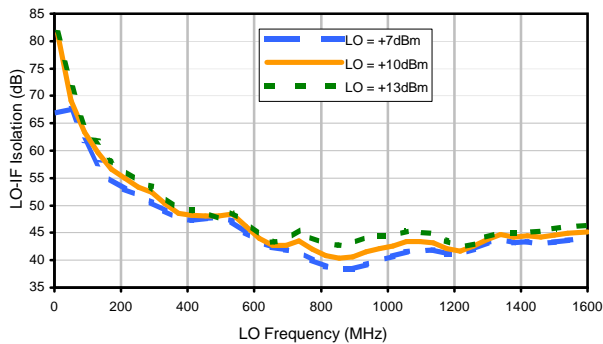


Typical Performance Curves

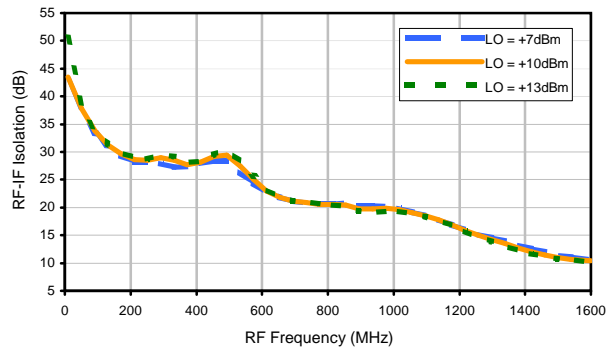
LO-RF Isolation



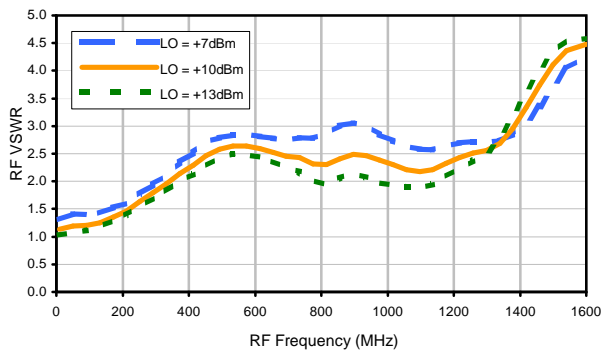
LO-IF Isolation



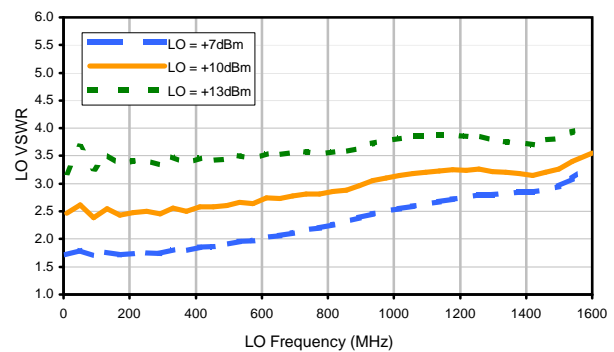
RF-IF Isolation



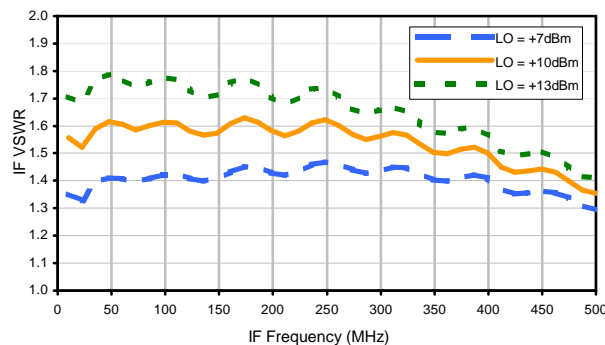
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	29	30	42	46	40	42	33	58	50	64
1	-	23	+0	48	17	32	47	37	40	34	53	49
2	90	42	57	47	55	41	52	61	62	52	41	68
3	>100	48	32	53	36	53	34	44	62	51	64	49
4	>100	75	72	57	65	52	67	50	63	80	69	64
5	>100	70	79	67	50	58	48	61	47	60	73	61
6	>100	82	83	86	80	71	82	65	69	63	71	81
7	>100	68	78	81	78	80	64	72	61	68	61	71
8	>100	90	77	89	90	93	88	89	83	79	77	71
9	>100	84	90	82	90	92	>93	93	78	79	75	75
10	>100	>93	93	>93	89	>93	>93	>93	>93	88	90	85
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 500.1 MHz; 0.00 dBm.
 LO IN: 530.01 MHz; +10.00 dBm
 IF OUT: 29.91 MHz; -6.95 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	20	25	33	34	30	29	17	41	45	54
1	-	23	+0	39	16	27	40	32	40	29	44	38
2	>100	45	60	47	69	42	55	70	58	60	50	58
3	>100	61	47	64	48	72	46	58	78	62	57	62
4	>100	>83	>83	68	81	69	79	69	80	>83	80	73
5	>100	>83	>83	>83	77	>83	80	>83	76	>83	>83	>83
6	>100	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
7	>100	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
8	>100	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
9	>100	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
10	>100	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 500.1 MHz; -10.00 dBm.
 LO IN: 530.01 MHz; +10.00 dBm
 IF OUT: 29.91 MHz; -16.99 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.

