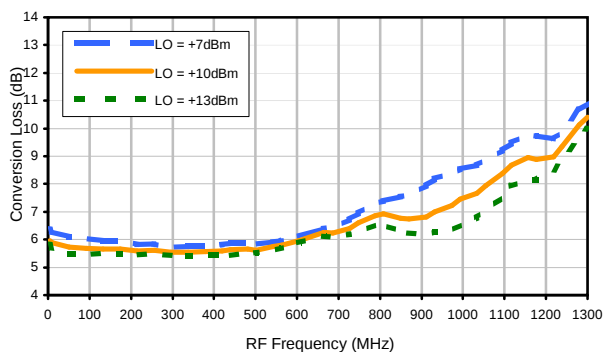


Frequency Mixer

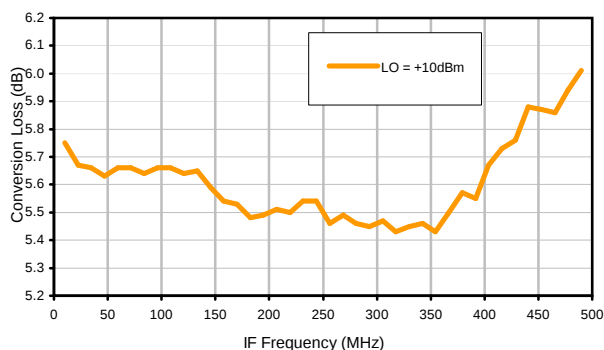
SBL-2LH+

Typical Performance Curves

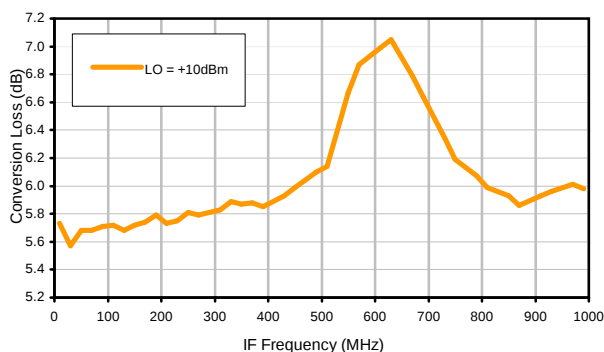
Conversion Loss @ IF=30MHz



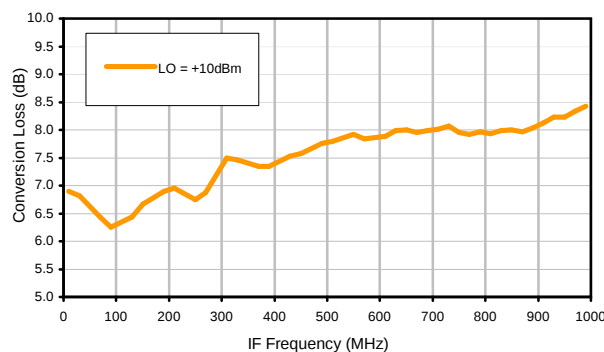
Conversion Loss vs. IF @ RF=500.1MHz



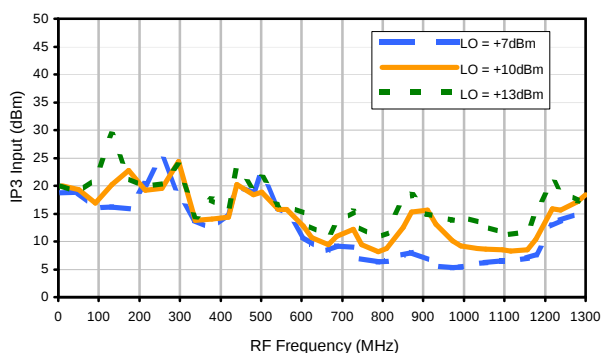
Conversion Loss vs. IF @ RF=10.1MHz



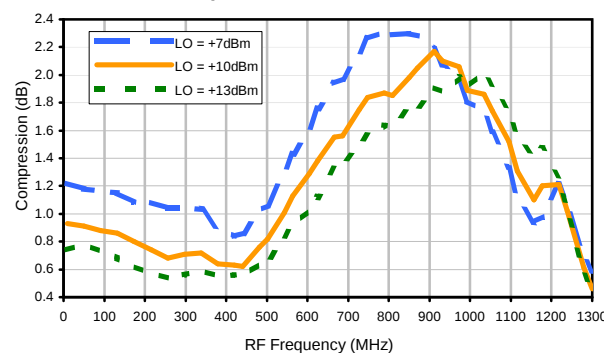
Conversion Loss vs. IF @ RF=1000.1MHz



IP3 Input



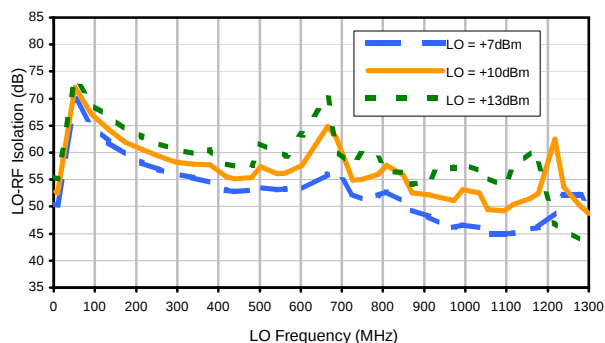
Compression @ RF IN=+5dBm



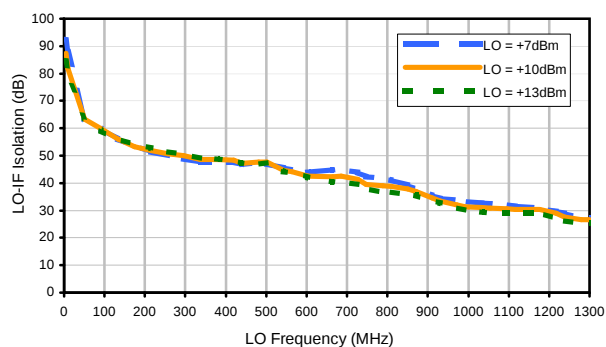
REV. X2
SBL-2LH+
100818
Page 1 of 3

Typical Performance Curves

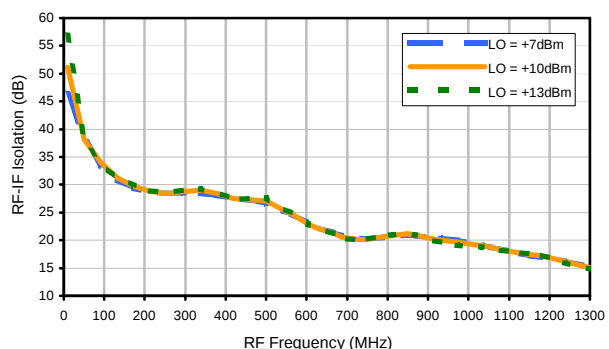
LO-RF Isolation



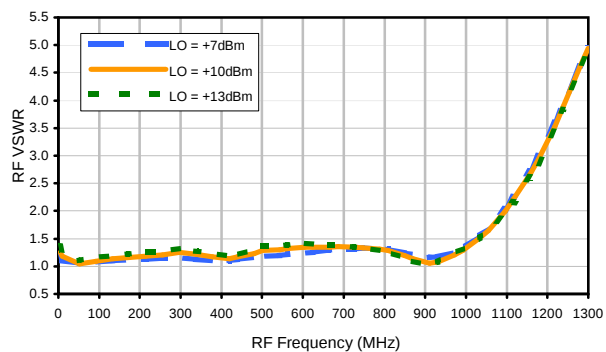
LO-IF Isolation



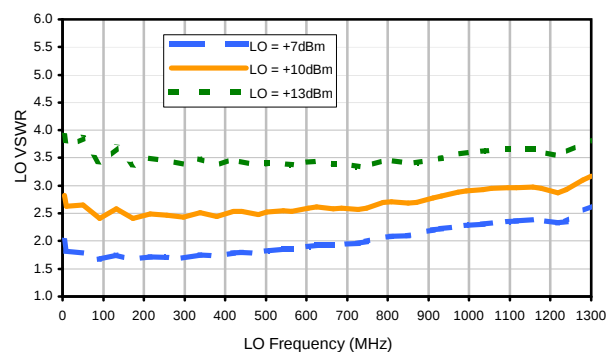
RF-IF Isolation



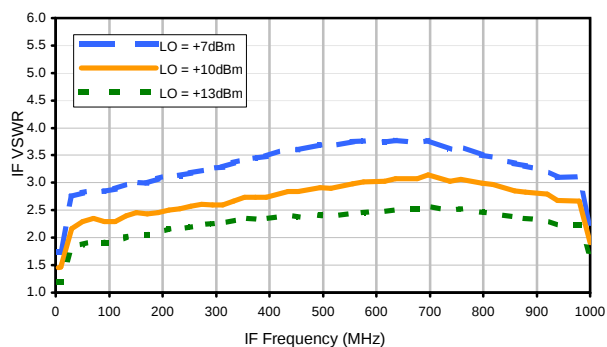
RF VSWR



LO VSWR



IF VSWR



REV. X2

SBL-2LH+

100818

Page 2 of 3



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED • RoHS compliant

P.O. Box 350166, Brooklyn, New York 11235-0003 (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



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	28	42	39	53	39	63	44	66	57	87
1	-	23	+0	32	11	40	24	52	44	51	56	71
2	90	73	48	62	50	65	50	65	60	65	60	74
3	>100	55	43	69	44	63	39	60	48	64	59	59
4	>100	88	76	80	68	74	70	80	61	77	78	78
5	>100	84	65	61	57	64	57	63	56	61	74	71
6	>100	>94	91	86	85	84	>94	83	88	84	84	94
7	>100	86	82	89	>94	80	79	76	72	79	70	72
8	>100	>94	>94	>94	>94	>94	>94	>94	>94	92	90	>94
9	>100	>94	>94	>94	>94	>94	92	93	81	89	82	92
10	>100	>94	>94	>94	>94	>94	>94	>94	>94	>94	>94	>94
	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; -5.82 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	20	32	24	39	27	45	30	47	40	64
1	-	22	+0	35	11	45	23	46	42	43	49	58
2	>100	72	56	63	58	76	55	71	64	70	66	84
3	>100	66	73	69	66	69	75	67	69	75	73	75
4	>100	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
5	>100	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
6	>100	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
7	>100	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
8	>100	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
9	>100	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
10	>100	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
	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; -15.74 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 represent the Harmonics level of the RF input signal to the mixer.

REV. X2

SBL-2LH+

100818

Page 3 of 3



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS9100 CERTIFIED • RoHS compliant

P.O. Box 350166, Brooklyn, New York 11235-0006 (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

