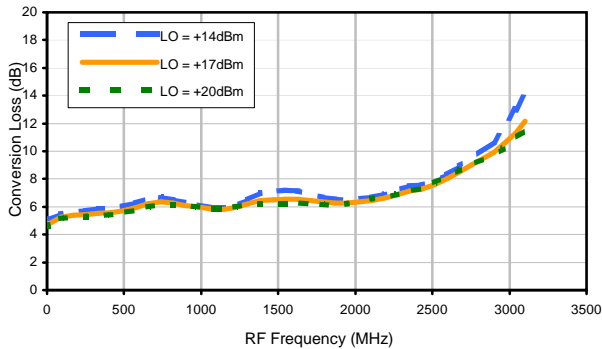


Frequency Mixer

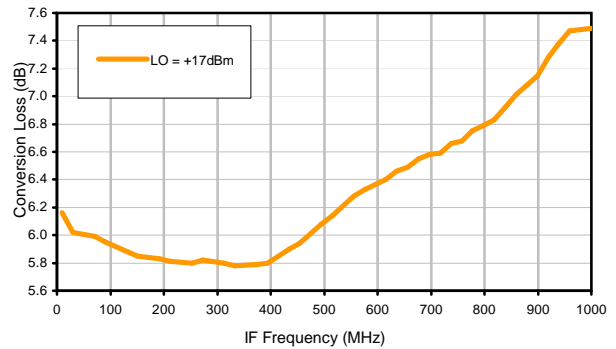
SBL-2500H

Typical Performance Curves

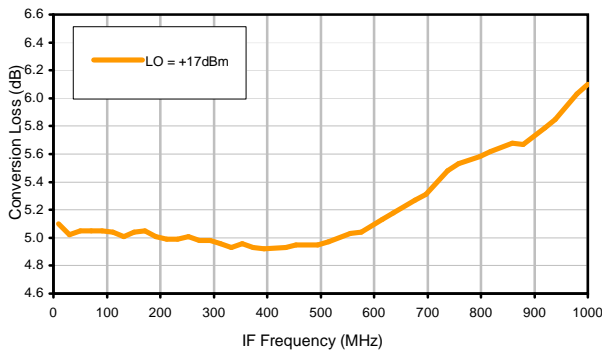
Conversion Loss @ IF=30MHz



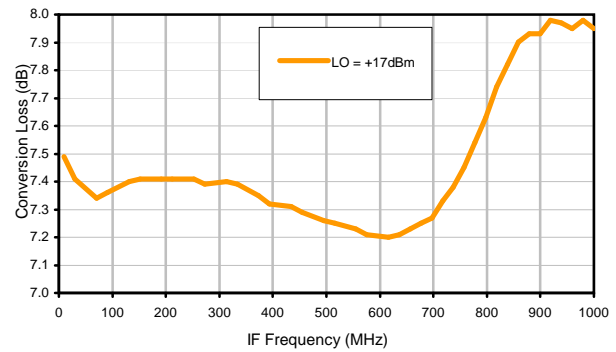
Conversion Loss vs. IF @ RF=1250.1MHz



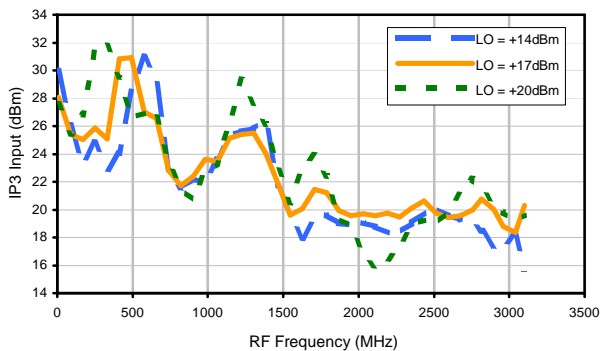
Conversion Loss vs. IF @ RF=10.1MHz



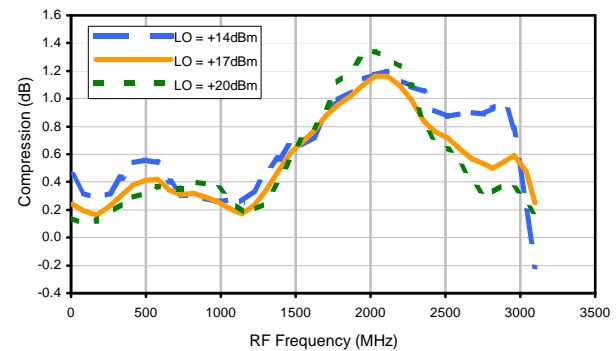
Conversion Loss vs. IF @ RF=2500.1MHz



IP3 Input

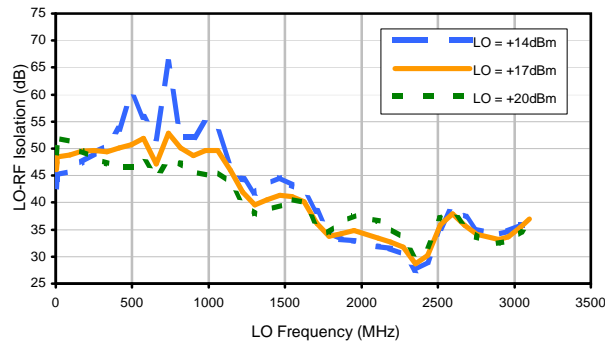


Compression @ RF IN=+10dBm

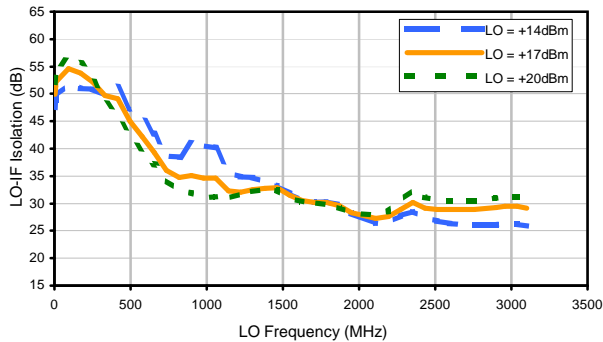


Typical Performance Curves

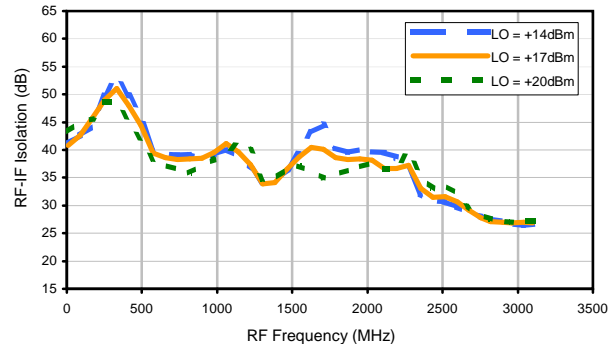
LO-RF Isolation



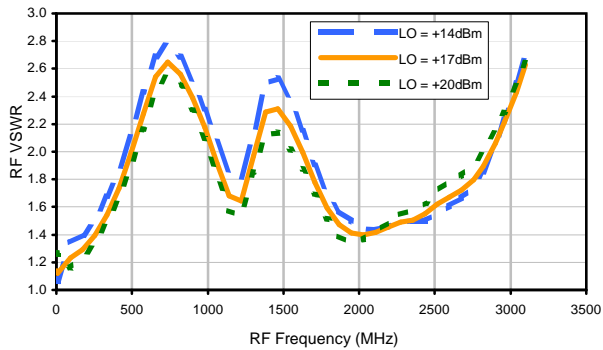
LO-IF Isolation



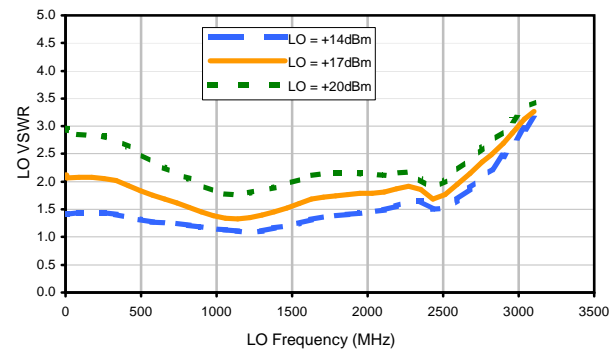
RF-IF Isolation



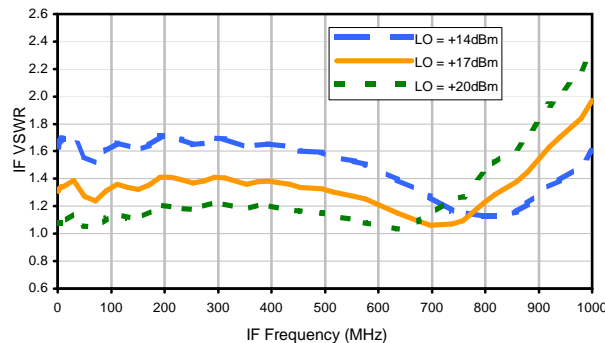
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	5	13	15	24	17	25	34	24	38	40
1	-	35	+0	34	15	45	39	42	40	55	34	44
2	>100	57	68	61	61	59	65	73	61	70	65	62
3	>100	>89	71	>89	68	86	71	>89	87	84	82	85
4	>100	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89
5	>100	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89
6	>100	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89
7	>100	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89
8	>100	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89
9	>100	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89
10	>100	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1250.1 MHz; -5.00 dBm.
 LO IN: 1280.01 MHz; +17.00 dBm
 IF OUT: 29.91 MHz; -11.18 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	15	22	25	34	27	37	48	37	49	56
1	-	37	+0	36	15	46	40	44	42	65	38	50
2	89	48	53	54	50	51	54	62	51	60	57	53
3	>100	75	51	71	48	66	52	73	68	65	63	68
4	>100	97	80	72	72	68	77	70	86	79	75	82
5	>100	93	>99	94	80	87	78	85	82	92	91	93
6	>100	>99	95	>99	97	95	94	90	90	91	98	>99
7	>100	>99	>99	>99	>99	>99	>99	94	92	95	97	>99
8	>100	>99	>99	>99	>99	>99	>99	>99	>99	93	>99	99
9	>100	>99	>99	>99	>99	>99	>99	>99	>99	>99	>99	>99
10	>100	>99	>99	>99	>99	>99	>99	>99	>99	>99	>99	>99
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1250.1 MHz; 5.00 dBm.
 LO IN: 1280.01 MHz; +17.00 dBm
 IF OUT: 29.91 MHz; -1.21 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.

