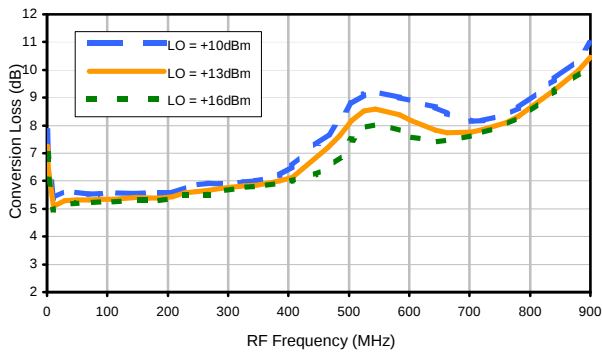


Frequency Mixer

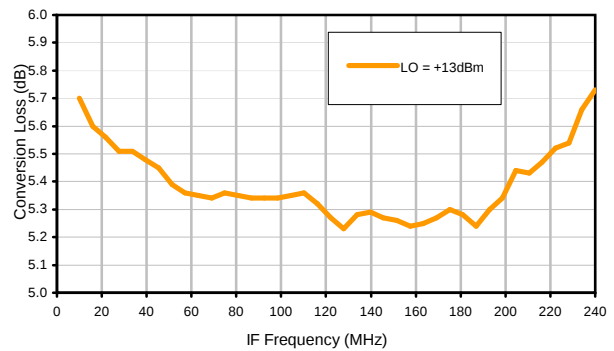
SBL-1MH+

Typical Performance Curves

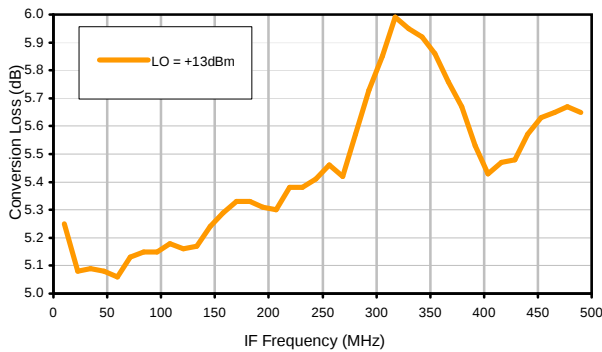
Conversion Loss @ IF=30MHz



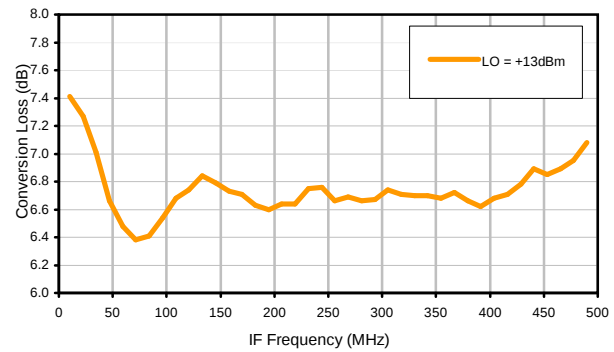
Conversion Loss vs. IF @ RF=250.1MHz



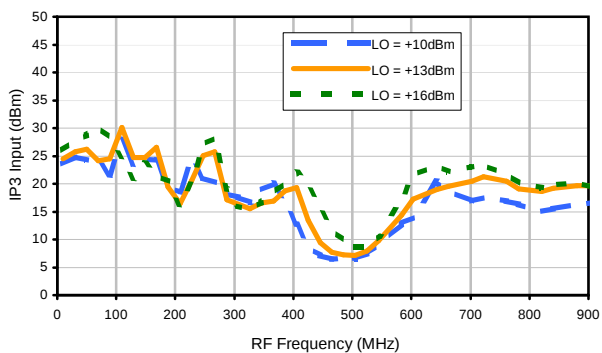
Conversion Loss vs. IF @ RF=10.1MHz



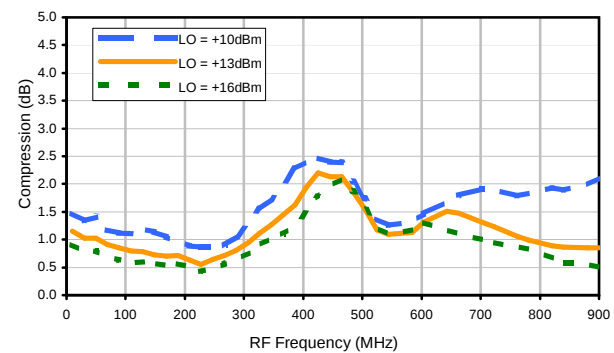
Conversion Loss vs. IF @ RF=500.1MHz



IP3 Input

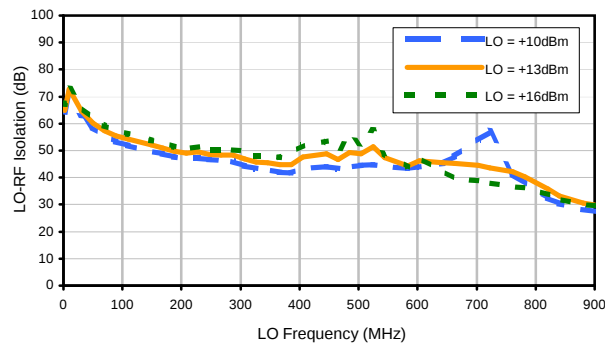


Compression @ RF IN=+9dBm

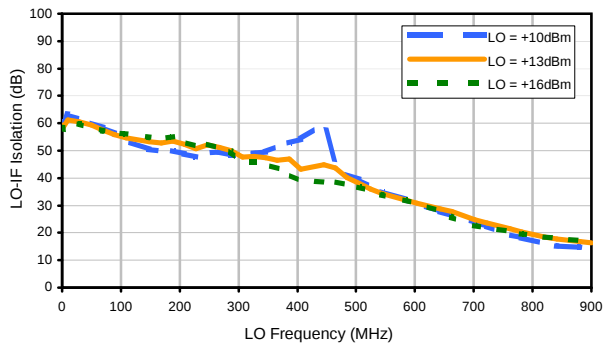


Typical Performance Curves

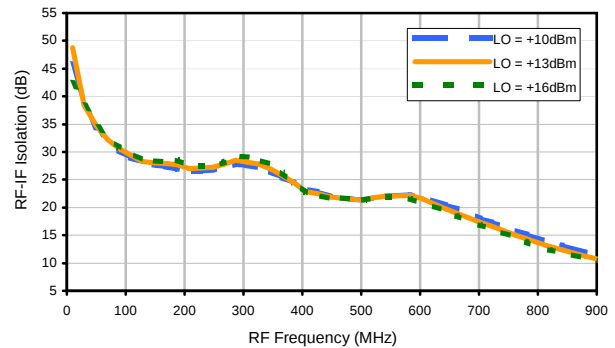
LO-RF Isolation



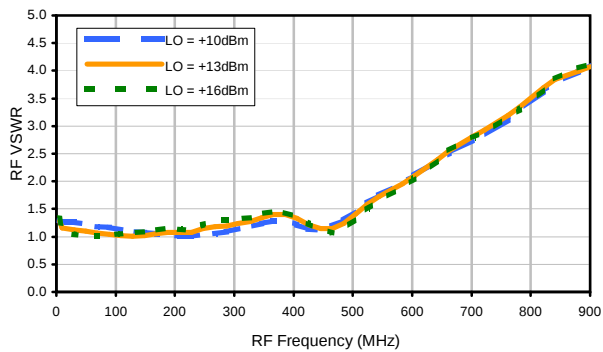
LO-IF Isolation



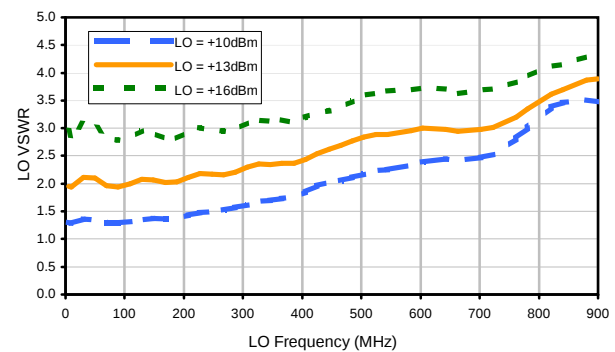
RF-IF Isolation



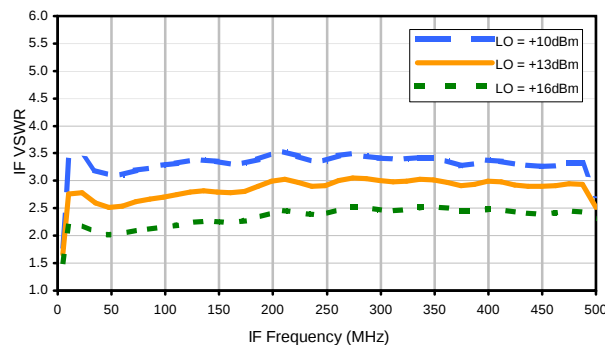
RF VSWR



LO VSWR



IF VSWR



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	35	54	25	44	31	53	40	56	63	74
1	-	23	+0	32	12	37	28	49	40	55	41	61
2	86	56	58	60	64	60	49	59	48	63	50	74
3	>100	49	42	49	51	51	38	62	52	58	50	61
4	>100	75	68	67	74	67	72	68	66	77	61	75
5	>100	76	64	61	48	66	46	61	46	65	59	71
6	>100	89	82	82	78	79	78	79	74	73	87	90
7	>100	85	80	83	68	72	65	73	62	68	58	82
8	>100	96	90	93	>98	86	78	82	81	83	78	85
9	>100	84	85	95	84	88	81	74	72	78	69	75
10	>100	96	98	>98	>98	>98	>98	97	92	92	83	88
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 250.1 MHz; 4.00 dBm.
LO IN: 280.01 MHz; +13.00 dBm
IF OUT: 29.91 MHz; -1.53 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	24	40	15	32	19	39	25	46	45	64
1	-	22	+0	30	11	37	27	44	40	46	31	48
2	>100	72	70	65	68	69	55	68	53	67	55	83
3	>100	70	63	75	56	74	57	87	64	79	62	79
4	>100	>88	>88	>88	87	>88	86	>88	83	>88	85	>88
5	>100	>88	82	>88	81	>88	78	>88	77	>88	87	>88
6	>100	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
7	>100	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
8	>100	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
9	>100	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
10	>100	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 250.1 MHz; -6.00 dBm.
LO IN: 280.01 MHz; +13.00 dBm
IF OUT: 29.91 MHz; -11.55 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.

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