

Frequency Mixer

SBL-3LH+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)			RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)			RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+5dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+7	+10	+13			+7	+10	+13			+7	+10	+13
0.07	30.1	5.39	5.17	5.00	10.1	40.1	17.41	17.77	19.16	10.1	40.1	1.36	1.02	0.78
0.10	30.1	5.19	4.97	4.83	22.7	52.7	17.80	18.19	20.50	22.7	52.7	1.20	0.94	0.74
0.14	30.1	5.09	4.87	4.74	35.2	65.2	17.39	18.27	25.88	35.2	65.2	1.03	0.90	0.72
0.2	30.2	5.03	4.81	4.68	47.8	77.8	16.89	18.84	24.68	47.8	77.8	1.11	0.89	0.69
0.5	30.5	4.95	4.75	4.59	60.4	90.4	18.48	23.12	16.88	60.4	90.4	1.18	0.85	0.67
0.7	30.7	4.92	4.70	4.56	72.9	102.9	16.75	18.54	21.10	72.9	102.9	1.00	0.81	0.65
1.0	31.0	4.90	4.69	4.53	85.5	115.5	19.51	17.55	14.37	85.5	115.5	1.03	0.74	0.61
2.0	32.0	4.90	4.65	4.48	98.0	128.0	24.92	15.04	14.64	98.0	128.0	1.02	0.74	0.58
5.0	35.0	4.98	4.67	4.48	110.6	140.6	17.04	15.48	15.08	110.6	140.6	0.85	0.68	0.56
10.0	40.0	4.77	4.59	4.47	123.2	153.2	15.93	13.17	12.39	123.2	153.2	0.82	0.63	0.54
22.7	52.7	4.93	4.70	4.54	135.7	165.7	19.34	15.98	14.53	135.7	165.7	0.95	0.69	0.58
47.8	77.8	5.00	4.76	4.60	148.3	178.3	24.04	17.64	17.34	148.3	178.3	1.07	0.77	0.65
60.4	90.4	5.02	4.75	4.61	160.9	190.9	21.91	14.39	14.81	160.9	190.9	1.29	0.85	0.68
72.9	102.9	5.06	4.79	4.62	173.4	203.4	17.53	13.88	15.90	173.4	203.4	1.55	0.95	0.64
85.5	115.5	4.95	4.78	4.66	186.0	216.0	11.46	13.77	14.58	186.0	216.0	1.76	1.23	0.82
110.6	140.6	5.15	4.83	4.64	198.6	228.6	7.31	10.10	13.30	198.6	228.6	1.97	1.49	1.05
123.2	153.2	5.25	5.02	4.82	211.1	241.1	5.66	5.66	8.49	211.1	241.1	2.17	1.73	1.30
135.7	165.7	5.24	5.03	4.89	223.7	253.7	5.00	4.32	4.60	223.7	253.7	2.38	2.00	1.56
148.3	178.3	5.26	5.04	4.88	236.3	266.3	4.65	4.36	4.41	236.3	266.3	2.36	2.02	1.71
173.4	203.4	5.35	5.06	4.97	248.8	278.8	4.73	4.78	5.20	248.8	278.8	2.13	1.81	1.57
186.0	216.0	5.57	5.16	4.98	261.4	291.4	5.28	5.88	6.97	261.4	291.4	2.04	1.71	1.49
198.6	228.6	5.77	5.42	5.16	273.9	303.9	7.55	8.66	10.17	273.9	303.9	1.71	1.45	1.24
211.1	241.1	5.93	5.72	5.45	286.5	316.5	8.33	9.57	11.76	286.5	316.5	1.71	1.52	1.24
236.3	266.3	6.30	6.06	5.84	299.1	329.1	9.93	11.43	13.35	299.1	329.1	1.69	1.36	1.11
248.8	278.8	6.59	6.32	6.06	311.6	341.6	11.23	13.02	14.72	311.6	341.6	1.82	1.40	1.19
261.4	291.4	6.67	6.33	6.02	324.2	354.2	11.73	14.22	17.24	324.2	354.2	1.93	1.41	1.18
273.9	303.9	6.94	6.43	6.00	336.8	366.8	13.17	17.28	18.71	336.8	366.8	1.85	1.32	1.11
299.1	329.1	6.74	6.21	5.88	349.3	379.3	14.48	18.55	15.78	349.3	379.3	1.90	1.43	1.20
311.6	341.6	6.69	6.21	5.88	361.9	391.9	14.02	16.31	15.37	361.9	391.9	1.83	1.28	1.00
324.2	354.2	6.41	6.09	5.89	374.5	404.5	12.21	13.03	14.06	374.5	404.5	2.01	1.52	1.14
336.8	366.8	6.58	6.30	6.15	387.0	417.0	11.43	12.56	14.51	387.0	417.0	1.98	1.40	1.00
361.9	391.9	6.72	6.53	6.52	399.6	429.6	11.40	13.13	14.02	399.6	429.6	2.10	1.53	1.20
374.5	404.5	6.71	6.51	6.58	412.2	442.2	12.08	14.44	14.14	412.2	442.2	1.99	1.35	1.14
387.0	417.0	6.97	6.88	7.05	424.7	454.7	11.65	13.47	13.27	424.7	454.7	2.00	1.40	1.27
399.6	429.6	7.42	7.25	7.32	437.3	467.3	11.76	13.91	14.15	437.3	467.3	2.05	1.45	1.35
424.7	454.7	8.29	8.08	8.06	449.8	479.8	12.39	14.86	14.92	449.8	479.8	1.95	1.24	1.10
437.3	467.3	8.62	8.33	8.27	462.4	492.4	12.46	14.70	15.55	462.4	492.4	2.13	1.37	1.21
449.8	479.8	9.39	9.11	8.98	475.0	505.0	13.05	15.93	15.75	475.0	505.0	2.09	1.11	0.86
462.4	492.4	9.98	9.52	9.29	487.5	517.5	13.03	15.93	17.00	487.5	517.5	2.17	1.03	0.75
500.1	530.1	12.91	12.11	11.76	500.1	530.1	12.91	16.65	17.61	500.1	530.1	2.14	0.93	0.65

Frequency Mixer

SBL-3LH+

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=125.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=10.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=250.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+10			+10			+10
115.0	10.1	4.98	10.0	20.1	4.56	240.0	10.1	6.23
112.3	12.8	4.95	15.9	26.0	4.51	234.1	16.0	6.11
109.6	15.5	4.93	21.8	31.9	4.48	228.2	21.9	5.97
106.9	18.2	4.88	27.7	37.8	4.47	222.3	27.8	5.89
104.2	20.9	4.82	33.6	43.7	4.54	216.4	33.7	5.85
101.5	23.6	4.78	39.5	49.6	4.54	210.5	39.6	5.82
98.8	26.3	4.77	45.4	55.5	4.60	204.6	45.5	5.78
96.2	28.9	4.74	51.3	61.4	4.61	198.7	51.4	5.72
93.5	31.6	4.71	57.2	67.3	4.59	192.8	57.3	5.71
90.8	34.3	4.71	63.1	73.2	4.66	186.9	63.2	5.68
88.1	37.0	4.71	69.0	79.1	4.68	181.0	69.1	5.69
85.4	39.7	4.70	74.9	85.0	4.73	175.1	75.0	5.68
82.7	42.4	4.71	80.8	90.9	4.74	169.2	80.9	5.66
80.0	45.1	4.71	86.7	96.8	4.74	163.3	86.8	5.63
77.3	47.8	4.70	92.6	102.7	4.78	157.4	92.7	5.65
74.6	50.5	4.71	98.5	108.6	4.81	151.5	98.6	5.71
71.9	53.2	4.70	104.4	114.5	4.81	145.6	104.5	5.76
69.2	55.9	4.69	110.3	120.4	4.81	139.7	110.4	5.72
66.5	58.6	4.70	116.2	126.3	4.76	133.8	116.3	5.70
63.8	61.3	4.64	122.1	132.2	4.72	127.9	122.2	5.69
61.2	63.9	4.65	127.9	138.0	4.75	122.1	128.0	5.75
58.5	66.6	4.70	133.8	143.9	4.89	116.2	133.9	5.81
55.8	69.3	4.70	139.7	149.8	5.05	110.3	139.8	5.78
53.1	72.0	4.71	145.6	155.7	5.16	104.4	145.7	5.74
50.4	74.7	4.71	151.5	161.6	5.20	98.5	151.6	5.68
47.7	77.4	4.73	157.4	167.5	5.21	92.6	157.5	5.64
45.0	80.1	4.73	163.3	173.4	5.27	86.7	163.4	5.64
42.3	82.8	4.73	169.2	179.3	5.29	80.8	169.3	5.63
39.6	85.5	4.74	175.1	185.2	5.33	74.9	175.2	5.62
36.9	88.2	4.74	181.0	191.1	5.20	69.0	181.1	5.59
34.2	90.9	4.72	186.9	197.0	5.10	63.1	187.0	5.59
31.5	93.6	4.71	192.8	202.9	5.10	57.2	192.9	5.58
28.8	96.3	4.72	198.7	208.8	5.07	51.3	198.8	5.52
26.2	98.9	4.71	204.6	214.7	5.16	45.4	204.7	5.50
23.5	101.6	4.73	210.5	220.6	5.12	39.5	210.6	5.52
20.8	104.3	4.75	216.4	226.5	5.29	33.6	216.5	5.57
18.1	107.0	4.75	222.3	232.4	5.38	27.7	222.4	5.68
15.4	109.7	4.75	228.2	238.3	5.52	21.8	228.3	5.81
12.7	112.4	4.76	234.1	244.2	5.47	15.9	234.2	6.01
10.0	115.1	4.81	240.0	250.1	5.43	10.0	240.1	6.15

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Frequency Mixer

SBL-3LH+

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)			RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)					@LO (dBm)		
	+7	+10	+13	+7	+10	+13			+7	+10	+13
0.07	69.51	63.65	64.89	67.21	61.05	61.21	10.1	40.1	40.28	38.58	40.94
0.10	66.52	62.95	64.78	64.62	60.16	61.05	22.7	52.7	32.85	33.07	33.10
0.14	65.02	62.75	64.47	63.02	59.80	60.95	35.2	65.2	29.17	29.31	29.60
0.2	64.07	62.58	64.50	62.27	59.57	60.90	47.8	77.8	26.96	27.82	28.02
0.5	63.42	62.45	64.37	61.42	59.40	60.82	60.4	90.4	26.09	26.24	26.54
0.7	63.12	62.25	64.29	61.32	59.30	60.80	72.9	102.9	25.44	25.84	26.30
1.0	62.82	62.23	64.36	60.92	59.23	60.83	85.5	115.5	24.96	25.68	26.23
2.0	62.62	62.11	64.23	60.82	59.10	60.74	98.0	128.0	24.18	25.09	25.86
5.0	62.57	62.06	64.19	60.57	59.04	60.61	110.6	140.6	24.10	24.95	25.78
10.0	62.36	62.16	64.39	59.66	58.62	60.22	123.2	153.2	24.38	24.82	25.17
22.7	55.77	56.37	56.59	46.10	46.98	47.42	135.7	165.7	25.53	25.76	25.97
47.8	54.42	56.01	56.73	44.42	45.82	46.89	148.3	178.3	27.07	27.93	28.25
60.4	53.27	55.36	56.37	43.35	44.71	46.20	160.9	190.9	25.47	26.60	27.61
72.9	52.54	54.41	55.58	42.04	43.96	45.66	173.4	203.4	23.07	23.68	23.92
85.5	52.12	54.95	56.80	41.26	43.40	44.93	186.0	216.0	20.61	20.53	20.56
110.6	50.44	52.59	53.95	40.20	42.62	44.39	198.6	228.6	18.83	18.51	18.29
123.2	53.67	56.37	57.62	39.49	41.62	43.16	211.1	241.1	17.75	17.58	17.11
135.7	57.00	63.04	58.76	39.40	41.83	43.29	223.7	253.7	16.50	16.38	16.08
148.3	50.14	56.97	71.61	37.48	40.49	43.71	236.3	266.3	16.10	16.03	15.87
173.4	44.67	48.20	52.87	35.98	37.28	38.57	248.8	278.8	15.84	15.73	15.65
186.0	42.66	45.99	50.64	36.92	37.00	36.55	261.4	291.4	15.69	15.60	15.55
198.6	41.38	45.80	52.05	38.45	35.80	34.61	273.9	303.9	16.05	15.94	15.75
211.1	44.63	52.65	68.31	39.07	35.96	34.17	286.5	316.5	15.70	15.45	15.11
236.3	51.17	58.06	62.38	38.70	40.15	37.95	299.1	329.1	15.23	14.78	14.37
248.8	50.79	58.62	74.28	35.46	36.84	37.74	311.6	341.6	14.82	14.19	13.80
261.4	51.54	61.23	59.16	34.24	35.21	35.46	324.2	354.2	13.68	13.18	12.88
273.9	55.61	60.23	55.48	33.58	34.14	34.07	336.8	366.8	12.99	12.61	12.35
299.1	57.86	49.76	44.50	31.58	31.57	29.41	349.3	379.3	12.48	12.12	11.92
311.6	55.83	47.53	41.03	30.11	29.30	25.84	361.9	391.9	11.76	11.44	11.15
324.2	54.78	44.26	38.44	28.52	26.56	23.15	374.5	404.5	11.35	10.95	10.26
336.8	46.11	38.83	35.04	26.80	24.36	21.81	387.0	417.0	10.41	9.87	9.14
361.9	40.10	35.85	33.34	23.51	22.12	20.45	399.6	429.6	9.33	8.80	8.28
374.5	36.55	34.09	31.69	22.28	21.68	20.24	412.2	442.2	8.41	7.90	7.57
387.0	34.09	32.62	30.11	20.85	21.07	19.69	424.7	454.7	7.72	7.26	7.03
399.6	30.83	30.34	28.15	19.17	19.84	18.69	437.3	467.3	7.19	6.82	6.60
424.7	24.57	24.86	24.02	15.88	16.83	16.13	449.8	479.8	6.72	6.41	6.20
437.3	22.85	23.23	22.76	14.81	15.80	15.25	462.4	492.4	6.33	5.97	5.84
449.8	21.59	22.03	21.75	14.46	15.06	14.59	475.0	505.0	5.84	5.51	5.29
462.4	20.70	20.92	20.59	14.36	14.68	14.09	487.5	517.5	5.51	5.19	5.02
500.1	18.84	18.78	18.28	14.05	13.84	13.15	500.1	530.1	5.29	4.95	4.76

Frequency Mixer

SBL-3LH+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=250.1MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+7	+10	+13		+7	+10	+13		+7	+10	+13
0.3	30.3	1.31	1.25	1.21	0.3	1.81	2.63	3.74	0.3	1.83	1.74	1.62
1.0	31.0	1.29	1.21	1.14	1.0	1.74	2.57	3.66	1.0	1.83	1.74	1.62
2.0	32.0	1.31	1.22	1.14	2.0	1.70	2.53	3.60	2.0	1.83	1.75	1.62
5.0	35.0	1.32	1.23	1.15	5.0	1.66	2.48	3.52	5.0	1.84	1.75	1.63
10.0	40.0	1.33	1.23	1.15	10.0	1.53	2.31	3.32	10.0	1.85	1.77	1.64
22.7	52.7	1.37	1.22	1.14	22.7	1.45	2.26	3.34	16.2	2.59	2.29	1.91
35.2	65.2	1.33	1.22	1.14	35.2	1.46	2.31	3.37	22.3	2.75	2.45	2.09
47.8	77.8	1.34	1.21	1.12	47.8	1.43	2.21	3.20	28.5	2.85	2.53	2.15
60.4	90.4	1.31	1.20	1.12	60.4	1.40	2.11	3.01	34.6	2.90	2.61	2.22
72.9	102.9	1.30	1.16	1.07	72.9	1.41	2.06	2.90	40.8	2.91	2.65	2.27
85.5	115.5	1.24	1.14	1.07	85.5	1.42	2.06	2.91	46.9	2.95	2.69	2.33
98.0	128.0	1.19	1.09	1.03	98.0	1.46	2.12	2.97	53.1	2.92	2.69	2.34
110.6	140.6	1.20	1.08	1.05	110.6	1.49	2.20	3.11	59.2	2.94	2.70	2.35
123.2	153.2	1.21	1.12	1.05	123.2	1.54	2.26	3.17	65.4	2.92	2.68	2.34
135.7	165.7	1.15	1.07	1.03	135.7	1.60	2.29	3.15	71.5	2.93	2.71	2.35
148.3	178.3	1.07	1.02	1.08	148.3	1.60	2.27	3.13	77.7	2.95	2.69	2.34
160.9	190.9	1.03	1.13	1.21	160.9	1.60	2.23	3.05	83.8	2.95	2.71	2.36
173.4	203.4	1.08	1.22	1.28	173.4	1.61	2.21	3.01	90.0	2.94	2.71	2.37
186.0	216.0	1.10	1.21	1.27	186.0	1.66	2.23	3.04	96.2	2.94	2.73	2.39
198.6	228.6	1.16	1.19	1.28	198.6	1.76	2.32	3.14	102.3	2.95	2.74	2.40
211.1	241.1	1.23	1.19	1.22	211.1	1.89	2.47	3.28	108.5	2.95	2.71	2.41
223.7	253.7	1.32	1.26	1.24	223.7	1.95	2.61	3.40	114.6	2.93	2.72	2.42
236.3	266.3	1.35	1.29	1.25	236.3	1.95	2.64	3.46	120.8	2.93	2.73	2.44
248.8	278.8	1.45	1.38	1.31	248.8	1.93	2.61	3.44	126.9	2.93	2.73	2.46
261.4	291.4	1.47	1.38	1.28	261.4	1.92	2.59	3.42	133.1	2.92	2.75	2.48
273.9	303.9	1.52	1.39	1.28	273.9	1.93	2.60	3.45	139.2	2.95	2.78	2.51
286.5	316.5	1.51	1.37	1.30	286.5	1.96	2.65	3.50	145.4	3.00	2.83	2.55
299.1	329.1	1.51	1.41	1.39	299.1	1.99	2.68	3.54	151.5	3.05	2.86	2.58
311.6	341.6	1.62	1.56	1.54	311.6	2.01	2.68	3.52	157.7	3.05	2.88	2.60
324.2	354.2	1.59	1.57	1.58	324.2	2.00	2.64	3.45	163.8	3.05	2.89	2.62
336.8	366.8	1.77	1.75	1.76	336.8	1.99	2.59	3.40	170.0	2.99	2.84	2.59
349.3	379.3	1.79	1.78	1.79	349.3	1.99	2.58	3.38	176.2	2.92	2.78	2.54
361.9	391.9	1.95	1.94	1.97	361.9	2.05	2.63	3.43	182.3	2.83	2.69	2.48
374.5	404.5	2.00	1.99	2.02	374.5	2.15	2.73	3.52	188.5	2.79	2.65	2.44
387.0	417.0	2.07	2.06	2.10	387.0	2.27	2.83	3.61	194.6	2.78	2.63	2.40
399.6	429.6	2.17	2.12	2.12	399.6	2.41	2.92	3.67	200.8	2.79	2.63	2.41
412.2	442.2	2.17	2.11	2.09	412.2	2.57	3.00	3.69	206.9	2.79	2.64	2.42
424.7	454.7	2.25	2.16	2.13	424.7	2.73	3.09	3.70	213.1	2.80	2.66	2.44
437.3	467.3	2.28	2.15	2.12	437.3	2.90	3.19	3.74	219.2	2.78	2.65	2.44
449.8	479.8	2.38	2.25	2.22	449.8	3.01	3.30	3.80	225.4	2.79	2.65	2.46
462.4	492.4	2.39	2.25	2.22	462.4	3.09	3.40	3.88	231.5	2.80	2.65	2.43
475.0	505.0	2.44	2.31	2.29	475.0	3.10	3.45	3.93	237.7	2.80	2.64	2.43
487.5	517.5	2.53	2.41	2.38	487.5	3.08	3.46	3.94	243.8	2.80	2.64	2.43
500.1	530.1	2.55	2.44	2.41	500.1	3.00	3.42	3.90	250.0	2.82	2.66	2.45

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	36	23	32	34	28	56	44	61	44	67
1	-	20	+0	34	15	29	42	33	71	42	61	41
2	93	47	68	45	67	46	59	55	46	65	60	65
3	>100	35	33	42	37	46	35	41	54	45	68	61
4	>100	57	58	60	67	63	74	69	69	67	64	72
5	>100	57	65	55	46	55	45	73	47	57	65	60
6	>100	74	80	67	71	69	72	65	70	69	73	77
7	>100	68	75	68	63	64	57	61	53	64	64	64
8	>100	91	89	87	78	72	85	76	85	80	80	79
9	>100	86	82	88	78	73	74	67	68	66	66	70
10	>100	>95	>95	89	90	91	89	80	86	55	83	85
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 120.1 MHz; 0.00 dBm.
 LO IN: 150.01 MHz; +10.00 dBm
 IF OUT: 29.91 MHz; -5.29 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	26	12	22	22	15	39	31	44	34	54
1	-	18	+0	34	15	23	36	28	48	36	54	39
2	>100	63	55	54	59	56	57	64	55	65	63	64
3	>100	53	51	60	48	59	47	61	63	67	65	59
4	>100	83	>84	73	76	71	>84	81	>84	82	74	>84
5	>100	>84	77	80	68	55	70	>84	82	74	>84	73
6	>100	>84	>84	>84	>84	>84	77	>84	>84	>84	>84	>84
7	>100	>84	>84	>84	>84	>84	>84	79	>84	>84	>84	>84
8	>100	>84	>84	>84	>84	>84	>84	83	83	>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	55	>84	>84
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 120.1 MHz; -10.00 dBm.
 LO IN: 150.01 MHz; +10.00 dBm
 IF OUT: 29.91 MHz; -15.69 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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