

# Frequency Mixer

# SBL-2500H

## 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=+10dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+14	+17	+20			+14	+17	+20			+14	+17	+20
5.0	35.0	5.09	4.79	4.65	10.1	40.1	29.98	28.07	27.59	10.1	40.1	0.45	0.24	0.14
7.3	37.3	5.04	4.76	4.61	90.9	120.9	26.10	25.38	25.47	90.9	120.9	0.32	0.19	0.10
10.1	40.1	5.02	4.73	4.60	171.7	201.7	23.28	25.05	26.79	171.7	201.7	0.28	0.16	0.12
90.9	120.9	5.49	5.27	5.15	252.5	282.5	24.80	25.86	31.43	252.5	282.5	0.32	0.22	0.18
171.7	201.7	5.63	5.39	5.25	333.2	363.2	22.93	25.09	31.84	333.2	363.2	0.43	0.30	0.24
252.5	282.5	5.72	5.44	5.30	414.0	444.0	24.02	30.83	29.50	414.0	444.0	0.54	0.38	0.29
333.2	363.2	5.86	5.53	5.39	494.8	524.8	28.59	30.91	26.59	494.8	524.8	0.56	0.41	0.32
414.0	444.0	5.87	5.57	5.43	575.6	605.6	30.98	27.01	26.94	575.6	605.6	0.54	0.42	0.37
494.8	524.8	6.03	5.70	5.56	656.4	686.4	29.27	26.56	26.82	656.4	686.4	0.40	0.34	0.35
575.6	605.6	6.27	5.93	5.75	737.2	767.2	22.66	22.84	23.38	737.2	767.2	0.31	0.31	0.35
656.4	686.4	6.57	6.21	6.01	817.9	847.9	21.58	21.72	21.53	817.9	847.9	0.31	0.32	0.40
737.2	767.2	6.67	6.34	6.16	898.7	928.7	22.21	22.38	20.73	898.7	928.7	0.28	0.29	0.39
817.9	847.9	6.51	6.26	6.12	979.5	1009.5	21.93	23.63	22.75	979.5	1009.5	0.26	0.26	0.36
898.7	928.7	6.30	6.10	6.05	1060.3	1090.3	23.58	23.47	23.33	1060.3	1090.3	0.27	0.21	0.27
979.5	1009.5	6.12	5.97	5.98	1141.1	1171.1	25.35	25.11	26.23	1141.1	1171.1	0.26	0.17	0.19
1060.3	1090.3	5.96	5.85	5.87	1221.9	1251.9	25.62	25.39	29.34	1221.9	1251.9	0.34	0.23	0.20
1141.1	1171.1	5.93	5.81	5.87	1302.6	1332.6	25.82	25.48	27.63	1302.6	1332.6	0.48	0.34	0.25
1221.9	1251.9	6.07	5.93	5.98	1383.4	1413.4	26.37	24.03	26.12	1383.4	1413.4	0.57	0.48	0.39
1302.6	1332.6	6.50	6.21	6.14	1464.2	1494.2	21.69	21.86	23.01	1464.2	1494.2	0.67	0.61	0.57
1383.4	1413.4	7.01	6.44	6.21	1545.0	1575.0	19.77	19.61	20.47	1545.0	1575.0	0.67	0.69	0.72
1464.2	1494.2	7.10	6.51	6.20	1625.8	1655.8	17.94	20.08	22.98	1625.8	1655.8	0.73	0.77	0.80
1545.0	1575.0	7.18	6.55	6.21	1706.6	1736.6	19.22	21.44	23.90	1706.6	1736.6	0.91	0.88	0.93
1625.8	1655.8	7.12	6.55	6.27	1787.4	1817.4	19.64	21.20	22.41	1787.4	1817.4	0.99	0.96	1.12
1706.6	1736.6	6.89	6.44	6.24	1868.1	1898.1	19.03	19.95	19.32	1868.1	1898.1	1.05	1.02	1.20
1787.4	1817.4	6.69	6.35	6.19	1948.9	1978.9	18.87	19.57	18.88	1948.9	1978.9	1.14	1.10	1.31
1868.1	1898.1	6.55	6.26	6.14	2029.7	2059.7	19.06	19.68	16.86	2029.7	2059.7	1.17	1.16	1.34
1948.9	1978.9	6.50	6.25	6.21	2110.5	2140.5	18.79	19.57	15.85	2110.5	2140.5	1.20	1.16	1.30
2110.5	2140.5	6.69	6.45	6.57	2191.3	2221.3	18.34	19.73	16.49	2191.3	2221.3	1.14	1.10	1.23
2191.3	2221.3	6.93	6.62	6.70	2272.1	2302.1	18.42	19.45	17.35	2272.1	2302.1	1.09	0.99	1.10
2272.1	2302.1	7.21	6.87	6.92	2352.8	2382.8	19.06	20.12	18.91	2352.8	2382.8	1.05	0.84	0.82
2352.8	2382.8	7.53	7.12	7.13	2433.6	2463.6	19.81	20.62	19.26	2433.6	2463.6	0.92	0.76	0.69
2433.6	2463.6	7.54	7.26	7.35	2514.4	2544.4	20.05	19.73	19.00	2514.4	2544.4	0.87	0.72	0.63
2514.4	2544.4	7.85	7.59	7.73	2595.2	2625.2	19.55	19.41	19.82	2595.2	2625.2	0.89	0.64	0.53
2595.2	2625.2	8.31	8.02	8.16	2676.0	2706.0	19.27	19.58	21.18	2676.0	2706.0	0.90	0.57	0.41
2676.0	2706.0	8.92	8.54	8.68	2756.8	2786.8	19.09	19.97	22.20	2756.8	2786.8	0.89	0.53	0.31
2756.8	2786.8	9.50	9.04	9.10	2817.4	2847.4	18.44	20.78	21.64	2817.4	2847.4	0.93	0.50	0.33
2898.1	2928.1	10.67	9.93	9.66	2898.1	2928.1	17.40	20.01	20.35	2898.1	2928.1	0.98	0.55	0.39
2958.7	2988.7	11.58	10.49	10.19	2958.7	2988.7	17.33	18.79	19.79	2958.7	2988.7	0.79	0.59	0.35
3039.5	3069.5	12.99	11.28	10.93	3039.5	3069.5	18.24	18.38	19.20	3039.5	3069.5	0.24	0.48	0.25
3100.1	3130.1	14.09	12.15	11.58	3100.1	3130.1	15.68	20.29	19.59	3100.1	3130.1	-0.21	0.25	0.17



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# SBL-2500H

## Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1250.1MHz (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)=2500.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
1000.0	250.1	7.49	10.0	20.1	5.10	1000.0	1500.1	7.95
979.8	270.3	7.48	30.2	40.3	5.02	979.8	1520.3	7.98
959.6	290.5	7.47	50.4	60.5	5.05	959.6	1540.5	7.95
939.4	310.7	7.38	70.6	80.7	5.05	939.4	1560.7	7.97
919.2	330.9	7.28	90.8	100.9	5.05	919.2	1580.9	7.98
899.0	351.1	7.15	111.0	121.1	5.04	899.0	1601.1	7.93
878.8	371.3	7.08	131.2	141.3	5.01	878.8	1621.3	7.93
858.6	391.5	7.01	151.4	161.5	5.04	858.6	1641.5	7.90
838.4	411.7	6.92	171.6	181.7	5.05	838.4	1661.7	7.82
818.2	431.9	6.83	191.8	201.9	5.01	818.2	1681.9	7.74
798.0	452.1	6.79	212.0	222.1	4.99	798.0	1702.1	7.63
777.8	472.3	6.75	232.2	242.3	4.99	777.8	1722.3	7.54
757.6	492.5	6.68	252.4	262.5	5.01	757.6	1742.5	7.45
737.3	512.8	6.66	272.7	282.8	4.98	737.3	1762.8	7.38
717.1	533.0	6.59	292.9	303.0	4.98	717.1	1783.0	7.33
696.9	553.2	6.58	313.1	323.2	4.96	696.9	1803.2	7.27
676.7	573.4	6.55	333.3	343.4	4.93	676.7	1823.4	7.25
656.5	593.6	6.49	353.5	363.6	4.96	656.5	1843.6	7.23
636.3	613.8	6.46	373.7	383.8	4.93	636.3	1863.8	7.21
616.1	634.0	6.40	393.9	404.0	4.92	616.1	1884.0	7.20
575.7	674.4	6.33	434.3	444.4	4.93	575.7	1924.4	7.21
555.5	694.6	6.28	454.5	464.6	4.95	555.5	1944.6	7.23
515.1	735.0	6.14	494.9	505.0	4.95	515.1	1985.0	7.25
494.9	755.2	6.08	515.1	525.2	4.97	494.9	2005.2	7.26
454.5	795.6	5.94	555.5	565.6	5.03	454.5	2045.6	7.29
434.3	815.8	5.90	575.7	585.8	5.04	434.3	2065.8	7.31
393.9	856.2	5.80	616.1	626.2	5.13	393.9	2106.2	7.32
373.7	876.4	5.79	636.3	646.4	5.18	373.7	2126.4	7.35
333.3	916.8	5.78	676.7	686.8	5.27	333.3	2166.8	7.39
313.1	937.0	5.80	696.9	707.0	5.31	313.1	2187.0	7.40
272.7	977.4	5.82	737.3	747.4	5.48	272.7	2227.4	7.39
252.4	997.7	5.80	757.6	767.7	5.53	252.4	2247.7	7.41
212.0	1038.1	5.81	798.0	808.1	5.58	212.0	2288.1	7.41
191.8	1058.3	5.83	818.2	828.3	5.62	191.8	2308.3	7.41
151.4	1098.7	5.85	858.6	868.7	5.68	151.4	2348.7	7.41
131.2	1118.9	5.88	878.8	888.9	5.67	131.2	2368.9	7.40
90.8	1159.3	5.95	919.2	929.3	5.79	90.8	2409.3	7.36
70.6	1179.5	5.99	939.4	949.5	5.85	70.6	2429.5	7.34
30.2	1219.9	6.02	979.8	989.9	6.03	30.2	2469.9	7.41
10.0	1240.1	6.16	1000.0	1010.1	6.10	10.0	2490.1	7.49



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# SBL-2500H

## Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+14	+17	+20	+14	+17	+20
5.0	42.94	46.09	49.22	47.50	49.97	52.01
7.3	44.31	47.36	50.39	48.81	51.34	53.24
10.1	45.19	48.47	52.07	49.56	52.16	54.22
90.9	45.78	48.85	51.30	51.76	54.62	56.77
171.7	47.48	49.49	49.49	51.01	53.73	55.57
252.5	49.22	49.70	48.30	50.85	52.14	52.70
333.2	50.67	49.43	47.33	49.69	49.75	48.57
414.0	53.56	50.07	46.54	51.27	49.06	46.08
494.8	60.20	50.75	46.54	47.38	45.05	42.69
575.6	55.80	51.93	47.75	45.95	42.24	39.74
656.4	51.95	47.21	44.76	42.68	39.25	37.12
737.2	66.01	52.79	47.70	38.73	35.98	34.32
817.9	52.10	50.09	47.30	38.51	34.76	32.58
898.7	52.13	48.69	45.57	40.95	35.04	31.89
979.5	54.76	49.65	45.19	40.55	34.66	31.13
1060.3	53.34	49.70	45.74	40.07	34.62	31.27
1141.1	47.08	45.97	43.68	35.62	32.34	31.01
1221.9	44.29	41.99	40.03	34.84	32.11	31.69
1302.6	41.85	39.59	37.95	34.69	32.56	32.21
1383.4	43.50	40.49	38.58	33.90	32.80	32.60
1464.2	44.69	41.37	39.43	33.19	32.83	32.42
1545.0	43.30	41.09	40.59	31.79	31.44	31.01
1625.8	42.07	40.20	39.94	30.54	30.55	30.32
1706.6	38.33	36.17	36.01	30.24	30.22	30.02
1787.4	34.52	33.77	34.45	30.35	30.18	29.82
1868.1	33.12	34.23	36.28	29.85	29.66	29.29
1948.9	32.99	34.84	37.57	28.18	28.36	28.33
2110.5	31.85	33.46	36.65	26.35	27.27	27.86
2191.3	31.50	32.75	35.33	26.57	27.57	28.54
2272.1	30.46	31.70	33.53	27.69	28.90	30.42
2352.8	27.51	28.70	30.15	28.57	30.23	32.56
2433.6	29.00	30.18	31.82	27.35	29.18	31.11
2514.4	35.36	35.86	37.04	26.81	28.95	30.51
2595.2	39.12	37.91	38.16	26.37	28.87	30.43
2676.0	37.28	35.82	35.76	26.15	28.89	30.56
2756.8	35.06	34.10	33.63	26.07	28.90	30.57
2898.1	34.18	33.14	32.42	26.05	29.20	31.06
2958.7	34.73	33.62	32.93	26.31	29.51	31.16
3039.5	35.86	35.42	34.70	26.20	29.52	31.12
3100.1	35.93	37.01	36.72	25.91	29.17	30.85

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
10.1	40.1	41.16	40.80	43.36
90.9	120.9	42.62	42.60	45.02
171.7	201.7	44.21	45.80	45.60
252.5	282.5	49.75	49.04	48.64
333.2	363.2	53.25	51.10	48.66
414.0	444.0	49.82	47.94	45.41
494.8	524.8	45.94	44.35	41.89
575.6	605.6	40.15	39.37	38.43
656.4	686.4	39.17	38.59	37.28
737.2	767.2	39.04	38.22	36.46
817.9	847.9	39.23	38.37	35.88
898.7	928.7	38.43	38.55	37.18
979.5	1009.5	39.14	39.53	38.32
1060.3	1090.3	40.17	41.11	39.36
1141.1	1171.1	38.69	39.62	41.55
1221.9	1251.9	36.69	37.31	40.01
1302.6	1332.6	34.11	33.86	34.69
1383.4	1413.4	34.49	34.13	34.86
1464.2	1494.2	36.59	36.60	36.66
1545.0	1575.0	39.37	38.72	37.09
1625.8	1655.8	43.08	40.50	36.03
1706.6	1736.6	44.45	40.08	34.93
1787.4	1817.4	40.36	38.65	35.46
1868.1	1898.1	39.52	38.22	36.39
1948.9	1978.9	40.15	38.44	36.91
2029.7	2059.7	39.67	38.17	37.65
2110.5	2140.5	39.55	36.70	36.53
2191.3	2221.3	38.71	36.70	36.42
2272.1	2302.1	36.64	37.21	39.85
2352.8	2382.8	32.08	33.14	35.13
2433.6	2463.6	30.78	31.52	33.13
2514.4	2544.4	30.71	31.61	33.62
2595.2	2625.2	29.72	30.67	32.20
2676.0	2706.0	28.68	29.18	29.99
2756.8	2786.8	27.97	27.80	28.30
2817.4	2847.4	27.54	27.11	27.51
2898.1	2928.1	27.07	26.94	27.13
2958.7	2988.7	26.62	26.92	26.97
3039.5	3069.5	26.40	26.98	27.23
3100.1	3130.1	26.60	26.87	27.25

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# SBL-2500H

## Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)		
		@LO (dBm)		
		+14	+17	+20
5.0	35.0	1.08	1.14	1.27
7.3	37.3	1.07	1.12	1.26
10.1	40.1	1.06	1.12	1.26
90.9	120.9	1.34	1.23	1.16
171.7	201.7	1.40	1.29	1.23
252.5	282.5	1.49	1.39	1.33
333.2	363.2	1.67	1.54	1.47
414.0	444.0	1.87	1.73	1.66
494.8	524.8	2.13	1.99	1.90
575.6	605.6	2.43	2.27	2.16
656.4	686.4	2.69	2.54	2.43
737.2	767.2	2.78	2.65	2.56
817.9	847.9	2.68	2.56	2.48
898.7	928.7	2.51	2.39	2.30
979.5	1009.5	2.31	2.17	2.09
1060.3	1090.3	2.07	1.92	1.83
1141.1	1171.1	1.85	1.68	1.57
1221.9	1251.9	1.81	1.65	1.54
1302.6	1332.6	2.12	1.97	1.85
1383.4	1413.4	2.50	2.29	2.13
1464.2	1494.2	2.53	2.31	2.13
1545.0	1575.0	2.38	2.18	2.02
1625.8	1655.8	2.15	1.99	1.88
1706.6	1736.6	1.90	1.78	1.69
1787.4	1817.4	1.70	1.59	1.51
1868.1	1898.1	1.58	1.47	1.39
1948.9	1978.9	1.50	1.41	1.34
2029.7	2059.7	1.44	1.40	1.37
2110.5	2140.5	1.44	1.42	1.42
2191.3	2221.3	1.46	1.46	1.49
2272.1	2302.1	1.49	1.49	1.55
2352.8	2382.8	1.50	1.51	1.57
2433.6	2463.6	1.50	1.55	1.63
2514.4	2544.4	1.55	1.62	1.72
2595.2	2625.2	1.61	1.67	1.78
2676.0	2706.0	1.66	1.72	1.83
2756.8	2786.8	1.75	1.80	1.90
2817.4	2847.4	1.85	1.89	1.99
2898.1	2928.1	2.05	2.06	2.14
2958.7	2988.7	2.23	2.21	2.28
3039.5	3069.5	2.50	2.43	2.48
3100.1	3130.1	2.70	2.63	2.65

LO (MHz)	LO VSWR (:1)		
	@LO (dBm)		
	+14	+17	+20
5.0	1.42	2.12	2.93
7.3	1.42	2.11	2.94
10.1	1.41	2.07	2.92
90.9	1.44	2.08	2.86
171.7	1.45	2.07	2.83
252.5	1.44	2.06	2.82
333.2	1.41	2.02	2.75
414.0	1.35	1.93	2.63
494.8	1.31	1.84	2.49
575.6	1.27	1.75	2.36
656.4	1.26	1.68	2.25
737.2	1.25	1.62	2.15
817.9	1.22	1.54	2.05
898.7	1.18	1.46	1.94
979.5	1.15	1.39	1.84
1060.3	1.13	1.33	1.78
1141.1	1.10	1.32	1.77
1221.9	1.09	1.35	1.80
1302.6	1.11	1.40	1.84
1383.4	1.16	1.46	1.90
1464.2	1.21	1.52	1.96
1545.0	1.25	1.60	2.05
1625.8	1.32	1.68	2.11
1706.6	1.37	1.73	2.15
1787.4	1.39	1.75	2.16
1868.1	1.41	1.77	2.16
1948.9	1.43	1.79	2.15
2029.7	1.46	1.79	2.12
2110.5	1.49	1.81	2.12
2191.3	1.56	1.87	2.15
2272.1	1.64	1.92	2.17
2352.8	1.65	1.86	2.04
2433.6	1.50	1.68	1.87
2514.4	1.52	1.77	2.01
2595.2	1.68	1.95	2.20
2676.0	1.88	2.15	2.41
2756.8	2.09	2.35	2.61
2817.4	2.23	2.48	2.72
2898.1	2.46	2.69	2.92
2958.7	2.67	2.88	3.10
3039.5	2.96	3.13	3.33
3100.1	3.14	3.26	3.43

IF (OUT) (MHz)	IF VSWR @LO=2500.1MHz (:1)		
	@LO (dBm)		
	+14	+17	+20
1.0	1.63	1.31	1.08
3.3	1.67	1.33	1.08
5.5	1.68	1.34	1.08
7.8	1.69	1.34	1.08
10.0	1.69	1.34	1.08
30.2	1.71	1.39	1.15
50.4	1.56	1.27	1.06
70.6	1.51	1.24	1.04
90.8	1.60	1.31	1.11
111.0	1.66	1.36	1.14
131.2	1.63	1.34	1.12
151.4	1.61	1.32	1.11
171.6	1.64	1.36	1.16
191.8	1.71	1.41	1.20
212.0	1.71	1.41	1.20
232.2	1.69	1.39	1.18
252.4	1.65	1.37	1.18
272.7	1.66	1.38	1.20
292.9	1.70	1.41	1.22
313.1	1.69	1.41	1.21
353.5	1.63	1.36	1.18
373.7	1.64	1.38	1.20
393.9	1.65	1.38	1.21
434.3	1.63	1.36	1.17
454.5	1.60	1.34	1.16
494.9	1.59	1.33	1.15
515.1	1.56	1.30	1.13
555.5	1.53	1.27	1.10
575.7	1.50	1.25	1.08
636.3	1.39	1.15	1.03
676.7	1.31	1.09	1.09
696.9	1.27	1.06	1.14
737.3	1.17	1.07	1.25
757.6	1.16	1.09	1.27
798.0	1.13	1.22	1.43
818.2	1.13	1.29	1.51
858.6	1.16	1.38	1.62
878.8	1.22	1.45	1.71
919.2	1.34	1.63	1.94
939.4	1.39	1.70	2.02
979.8	1.50	1.84	2.19
1000.0	1.60	1.97	2.35

## 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.

REV. X2  
 SBL-2500H  
 100818  
 Page 5 of 5



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