

Frequency Mixer

SBL-1ZMH+

Typical Performance Data

RF (MHz)	LO (MHz)	CONVERSION LOSS (dB)			LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
		@LO (dBm)				@LO (dBm)			@LO (dBm)		
		+10	+13	+16		+10	+13	+16	+10	+13	+16
2.0	32.0	7.97	7.47	7.16	2.0	69.98	70.78	73.30	63.48	65.58	66.90
4.0	34.0	7.33	6.83	6.51	4.0	69.28	70.28	73.22	58.72	59.74	60.82
5.0	35.0	7.20	6.65	6.34	5.0	69.38	70.18	72.99	56.42	57.88	59.08
10.0	40.0	6.84	6.27	5.98	10.0	69.20	70.01	72.74	50.76	52.36	53.57
20.0	50.0	6.73	6.18	5.87	20.0	68.66	69.85	72.60	44.64	46.22	47.65
50.0	80.0	6.64	6.15	5.89	50.0	68.34	69.63	73.30	37.42	39.08	40.28
100.0	70.0	6.63	6.15	5.91	100.0	66.42	67.71	73.85	31.64	33.80	35.87
119.6	89.6	6.43	6.08	5.84	119.6	64.26	67.73	75.30	30.50	32.85	34.65
200.0	170.0	6.86	6.34	6.10	200.0	63.39	74.27	61.33	27.21	29.38	30.91
276.5	246.5	7.15	6.71	6.50	276.5	69.84	67.53	51.69	26.05	27.35	28.56
433.4	403.4	7.68	6.85	6.14	433.4	52.91	51.02	47.32	24.31	25.68	26.93
500.0	470.0	6.54	6.21	5.95	500.0	48.26	49.19	46.80	24.67	26.25	27.35
550.0	520.0	6.28	5.99	5.85	550.0	52.20	53.13	48.53	25.06	26.35	26.94
590.2	560.2	6.08	5.95	5.95	590.2	55.02	51.95	44.26	25.41	27.35	27.83
747.1	717.1	7.05	6.91	6.77	747.1	45.33	45.36	39.98	29.35	31.35	29.04
903.9	873.9	8.95	7.63	7.05	903.9	47.76	45.31	44.35	36.55	33.05	30.37
1000.0	970.0	8.38	7.69	7.24	1000.0	43.61	42.04	42.61	31.70	30.24	28.96
1021.6	991.6	8.53	7.87	7.42	1021.6	41.84	40.76	41.67	31.51	30.36	29.27
1060.8	1030.8	8.79	8.11	7.73	1060.8	36.61	35.87	36.58	31.09	30.40	29.57
1100.0	1070.0	9.10	8.49	8.09	1100.0	32.15	32.15	31.32	34.18	34.03	33.76



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RF/LO (MHz)	RF VSWR (:1)			LO VSWR (:1)			IF (MHz)	IF VSWR (:1)			LO/RF (MHz)	max. DC output (mV)	DC Offset (mV)
	@LO (dBm)			@LO (dBm)				@LO (dBm)			@LO (dBm)		
	+10	+13	+16	+10	+13	+16		+10	+13	+16	+13		
2.0	1.78	1.79	1.79	1.72	2.25	3.01	2.0	1.49	1.39	1.29	2.00	-487.7	0.32
4.0	1.72	1.74	1.75	1.56	2.13	2.91	4.0	1.50	1.41	1.29	4.00	-506.8	0.32
5.0	1.71	1.74	1.75	1.52	2.10	2.88	5.0	1.51	1.41	1.30	5.00	-514.4	0.32
10.0	1.79	1.81	1.81	1.35	1.95	2.72	10.0	1.60	1.47	1.34	10.00	-516.4	0.32
20.0	1.73	1.76	1.78	1.36	1.97	2.78	20.0	1.58	1.45	1.33	20.00	-513.9	0.30
50.0	1.74	1.77	1.78	1.33	1.93	2.69	50.0	1.61	1.48	1.36	50.00	-535.2	0.31
100.0	1.73	1.75	1.75	1.28	1.86	2.61	83.0	1.65	1.51	1.38	100.00	-510.0	0.18
200.0	1.57	1.59	1.59	1.27	1.84	2.56	100.0	1.66	1.52	1.40	153.45	-516.4	0.24
246.0	1.51	1.53	1.55	1.31	1.91	2.65	137.0	1.69	1.55	1.42	200.00	-533.7	0.34
368.0	1.41	1.50	1.58	1.39	1.97	2.69	177.0	1.71	1.57	1.45	304.90	-490.7	1.38
490.0	1.51	1.68	1.84	1.51	2.06	2.79	200.0	1.73	1.58	1.46	456.34	-445.5	-0.09
550.0	1.63	1.83	2.03	1.61	2.12	2.83	231.0	1.73	1.58	1.46	500.00	-446.0	-0.38
581.0	1.69	1.90	2.10	1.66	2.16	2.86	250.0	1.73	1.58	1.46	550.00	-496.4	-1.31
642.0	1.76	1.95	2.13	1.76	2.29	2.98	285.0	1.72	1.57	1.45	607.79	-535.9	-3.43
764.0	1.71	1.82	1.93	1.85	2.36	3.04	325.0	1.66	1.54	1.43	759.24	-381.3	-4.07
886.0	1.49	1.52	1.58	1.78	2.24	2.91	365.0	1.60	1.49	1.41	910.69	-385.6	-5.84
1000.0	1.87	1.80	1.77	1.91	2.24	2.83	406.0	1.58	1.53	1.46	1000.00	-410.4	-6.53
1039.0	2.14	2.02	1.95	2.01	2.28	2.81	446.0	1.62	1.58	1.58	1024.28	-395.1	-5.62
1069.0	2.37	2.24	2.13	2.07	2.25	2.71	487.0	1.76	1.78	1.84	1062.14	-428.6	-6.27
1100.0	2.72	2.55	2.43	2.10	2.16	2.53	500.0	1.82	1.87	1.96	1100.00	-427.4	-11.09