

# Frequency Mixer

# SBL-173SH

## 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)		
		+7	+10	+13		+7	+10	+13	+7	+10	+13
5.0	35.0	5.94	5.56	5.20	5.0	37.8	40.6	43.5	46.5	50.0	53.0
10.1	40.1	5.84	5.46	5.16	10.1	40.4	42.9	46.0	48.1	51.9	56.0
21.4	51.4	5.94	5.51	5.15	21.4	41.2	44.1	47.3	47.9	52.1	57.0
50.0	80.0	6.08	5.61	5.14	50.0	41.1	43.9	47.0	47.7	51.7	56.4
102.5	72.5	6.07	5.60	5.20	102.5	41.2	43.9	45.9	47.7	51.5	54.8
128.1	98.1	6.03	5.63	5.28	128.1	41.5	44.0	45.4	47.7	51.2	54.4
200.4	170.4	6.29	5.81	5.41	200.4	42.5	43.8	44.6	48.5	51.5	53.7
250.7	220.7	6.41	5.90	5.37	250.7	43.7	43.3	43.1	49.0	51.3	51.6
350.6	320.6	6.94	6.10	5.43	350.6	45.0	42.8	42.2	51.5	50.5	49.8
438.5	408.5	7.26	6.28	5.74	438.5	46.4	43.3	41.5	56.5	54.0	50.7
548.5	518.5	6.84	5.96	5.72	548.5	46.1	41.6	39.8	56.3	48.0	45.2
600.0	570.0	6.85	6.01	5.90	600.0	44.7	40.5	38.6	57.7	47.0	41.5
686.0	656.0	7.23	6.40	6.09	686.0	42.2	38.8	36.6	54.9	42.5	37.5
700.0	670.0	7.04	6.43	6.10	700.0	41.7	38.7	36.7	55.6	42.6	37.7
800.0	770.0	7.33	6.68	6.35	800.0	40.9	38.4	36.7	51.5	40.8	35.8
900.0	870.0	7.21	6.58	6.27	900.0	39.0	36.9	35.2	42.2	41.0	34.1
1000.0	970.0	7.11	6.44	6.18	1000.0	37.1	35.8	34.1	39.3	40.1	32.9
1100.0	1070.0	6.93	6.32	6.09	1100.0	36.0	35.4	34.3	41.2	38.4	32.3
1150.0	1120.0	6.96	6.30	6.09	1150.0	35.7	35.0	33.9	42.4	38.1	32.2
1200.0	1170.0	6.80	6.20	5.99	1200.0	35.0	34.3	33.2	43.6	36.5	31.7



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RF/LO (MHz)	RF VSWR (:1)			LO VSWR (:1)			IF (MHz)	IF VSWR (:1)		
	@LO (dBm)			@LO (dBm)				@LO (dBm)		
	+7	+10	+13	+7	+10	+13		+7	+10	+13
5.0	2.51	2.20	1.99	1.26	1.34	2.05	1.0	1.14	1.09	1.21
10.1	2.54	2.22	2.01	1.24	1.32	2.03	10.1	1.16	1.06	1.18
21.4	2.52	2.20	2.00	1.23	1.31	2.05	21.4	1.17	1.06	1.18
50.0	2.53	2.20	1.99	1.25	1.33	2.10	50.0	1.15	1.08	1.20
102.5	2.47	2.18	1.99	1.24	1.31	1.97	102.5	1.24	1.11	1.17
128.1	2.47	2.18	2.00	1.28	1.32	2.03	128.1	1.24	1.09	1.15
200.4	2.48	2.22	2.05	1.29	1.29	1.89	200.4	1.37	1.19	1.17
250.7	2.67	2.41	2.23	1.36	1.32	2.15	250.7	1.37	1.20	1.21
350.6	2.72	2.50	2.35	1.39	1.27	2.01	350.6	1.51	1.29	1.25
438.5	2.75	2.55	2.42	1.53	1.20	1.89	438.5	1.61	1.36	1.28
548.5	2.75	2.57	2.46	1.53	1.19	1.61	548.5	1.68	1.43	1.37
600.0	2.65	2.48	2.38	1.67	1.20	1.66	600.0	1.78	1.56	1.50
686.0	2.76	2.58	2.49	1.82	1.23	1.52	686.0	1.77	1.60	1.57
700.0	2.81	2.61	2.51	1.87	1.25	1.54	700.0	1.76	1.58	1.55
800.0	2.85	2.61	2.51	2.04	1.29	1.43	800.0	1.65	1.56	1.59
900.0	2.78	2.51	2.39	2.21	1.31	1.31	900.0	1.55	1.58	1.67
1000.0	2.64	2.31	2.17	2.35	1.35	1.18	1000.0	1.44	1.58	1.73
1100.0	2.50	2.12	1.93	2.44	1.40	1.07	1100.0	1.34	1.58	1.76
1150.0	2.47	2.06	1.84	2.47	1.41	1.07	1150.0	1.31	1.56	1.76
1200.0	2.44	2.00	1.74	2.45	1.42	1.13	1200.0	1.28	1.54	1.70