

Frequency Mixer

SYM-ED8112/1

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)		
		+14	+17	+20		+14	+17	+20	+14	+17	+20
5.0	35.0	6.19	5.69	5.39	35.0	32.5	35.6	38.5	43.8	47.0	49.0
10.0	40.0	5.95	5.55	5.35	40.0	33.1	36.4	39.3	44.0	47.4	49.4
20.0	50.0	5.88	5.38	5.18	50.0	34.5	37.8	40.8	44.3	47.4	49.1
50.0	80.0	5.71	5.21	5.11	80.0	36.7	39.8	42.8	45.1	47.6	48.5
100.0	130.0	5.72	5.32	5.02	130.0	38.2	41.5	45.2	44.8	46.5	46.2
124.5	154.5	5.72	5.32	5.12	154.5	38.7	42.4	45.9	45.2	46.6	45.5
247.9	277.9	6.34	5.84	5.44	277.9	40.5	44.6	49.5	47.3	43.5	41.2
371.4	401.4	6.51	5.81	5.41	401.4	42.1	46.7	50.2	45.1	40.8	38.5
494.8	524.8	6.80	5.90	5.50	524.8	42.7	45.2	44.9	41.5	38.0	36.3
500.0	530.0	6.81	5.91	5.51	530.0	42.6	44.9	44.7	41.3	38.1	36.3
618.3	648.3	7.24	6.24	5.74	648.3	40.1	40.6	40.4	38.1	36.9	35.7
650.0	680.0	7.26	6.16	5.56	680.0	39.5	39.5	39.4	37.6	36.0	34.8
700.0	730.0	7.12	6.12	5.72	730.0	38.1	38.3	38.2	36.6	35.4	34.6
741.7	771.7	7.02	6.22	5.82	771.7	37.4	37.5	37.2	36.3	34.9	33.8
865.2	895.2	6.93	6.43	6.23	895.2	35.0	35.5	35.5	35.7	34.6	33.8
988.6	1018.6	6.62	6.22	6.02	1018.6	31.7	32.4	32.6	35.3	34.7	34.0
1000.0	1030.0	6.40	6.10	5.90	1030.0	31.5	32.2	32.4	35.1	34.5	33.9
1112.1	1142.1	6.12	5.82	5.82	1142.1	30.4	31.3	31.9	34.4	34.7	34.5
1235.5	1265.5	6.41	6.11	5.91	1265.5	30.4	31.5	32.0	33.1	34.5	34.7
1350.0	1380.0	6.72	6.22	6.02	1380.0	29.6	30.4	31.1	32.3	34.2	35.1
1359.0	1389.0	6.80	6.30	6.10	1389.0	29.3	30.3	30.9	32.2	34.2	35.1
1482.4	1512.4	7.05	6.35	6.15	1512.4	28.8	30.3	31.0	31.5	34.2	35.8
1500.0	1530.0	7.10	6.40	6.20	1530.0	28.8	30.3	30.8	31.5	34.0	35.6
1605.9	1635.9	7.64	6.74	6.44	1635.9	28.0	29.5	30.1	31.2	33.7	35.8
1729.3	1759.3	8.05	7.15	6.75	1759.3	26.7	27.9	29.0	31.1	33.3	35.8
1852.8	1882.8	8.54	7.34	6.84	1882.8	26.0	27.3	28.4	32.0	34.5	37.1
1970.0	2000.0	9.11	7.71	7.21	2000.0	26.6	27.8	28.6	32.7	35.8	38.9
1976.2	2006.2	9.05	7.75	7.25	2006.2	26.7	27.8	28.7	32.8	35.7	39.0
2000.0	2030.0	9.38	7.98	7.38	2030.0	26.8	27.9	28.6	32.9	35.9	39.3

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Typical Performance Data

RF/LO (MHz)	RF VSWR (:1)			LO VSWR (:1)			IF (MHz)	IF VSWR (:1)		
	@LO (dBm)			@LO (dBm)				@LO (dBm)		
	+14	+17	+20	+14	+17	+20		+14	+17	+20
35.0	2.01	1.88	1.81	1.13	1.61	2.35	1.0	1.37	1.13	1.32
40.0	1.55	1.43	1.39	1.11	1.64	2.35	2.0	1.39	1.08	1.30
50.0	1.42	1.28	1.22	1.07	1.67	2.40	5.0	1.38	1.07	1.29
80.0	1.39	1.23	1.16	1.04	1.67	2.35	10.0	1.39	1.08	1.30
130.0	1.41	1.27	1.18	1.01	1.65	2.40	20.0	1.38	1.08	1.29
154.5	1.43	1.27	1.20	1.02	1.73	2.49	30.0	1.39	1.09	1.30
277.9	1.59	1.45	1.37	1.14	1.59	2.27	50.0	1.38	1.10	1.29
401.4	1.85	1.68	1.57	1.21	1.56	2.25	100.0	1.39	1.17	1.33
524.8	2.18	1.94	1.80	1.28	1.54	2.14	199.9	1.38	1.31	1.48
530.0	2.16	1.92	1.80	1.30	1.54	2.10	300.0	1.40	1.48	1.66
648.3	2.58	2.27	2.08	1.32	1.40	1.87	398.8	1.49	1.67	1.85
680.0	2.61	2.32	2.10	1.34	1.43	2.03	500.0	1.56	1.81	1.99
730.0	2.61	2.35	2.16	1.34	1.39	1.84	597.7	1.59	1.87	2.04
771.7	2.49	2.27	2.12	1.36	1.36	1.96	697.2	1.54	1.81	2.01
895.2	2.35	2.20	2.12	1.51	1.35	1.84	796.6	1.45	1.73	1.91
1018.6	2.37	2.25	2.16	1.56	1.30	1.69	896.1	1.32	1.59	1.78
1030.0	2.46	2.30	2.23	1.58	1.32	1.71	995.5	1.22	1.51	1.71
1142.1	2.40	2.20	2.10	1.67	1.33	1.69	1095.0	1.17	1.49	1.67
1265.5	2.37	2.14	2.01	1.78	1.37	1.69	1194.4	1.09	1.38	1.55
1380.0	2.32	2.08	1.96	1.80	1.40	1.66	1293.9	1.15	1.30	1.46
1389.0	2.27	2.06	1.94	1.81	1.41	1.65	1393.3	1.43	1.46	1.57
1512.4	2.35	2.01	1.87	2.16	1.51	1.71	1492.8	1.78	1.77	1.82
1530.0	2.32	2.01	1.85	2.18	1.54	1.76	1500.0	1.81	1.78	1.85
1635.9	2.46	2.10	1.91	2.16	1.54	1.70	1592.2	2.20	2.12	2.16
1759.3	2.65	2.30	2.10	2.03	1.49	1.48	1691.7	2.65	2.55	2.55
1882.8	2.84	2.49	2.27	2.27	1.52	1.38	1791.1	2.92	2.76	2.72
2000.0	2.76	2.46	2.32	2.30	1.46	1.26	1800.0	3.01	2.84	2.80