

Frequency Mixer

SYM-ED6840/1

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)		
		+4	+7	+10		+4	+7	+10	+4	+7	+10
5.0	35.0	8.28	7.08	6.48	35.0	28.9	31.8	34.7	36.0	40.4	44.5
10.0	40.0	7.97	6.67	6.27	40.0	29.6	32.6	35.3	36.2	40.6	44.6
40.0	70.0	7.42	6.42	5.82	70.0	31.7	34.6	37.8	36.8	41.0	45.2
80.0	110.0	7.28	6.38	5.78	110.0	32.9	35.9	39.0	37.3	41.5	45.5
150.0	180.0	7.39	6.39	5.89	180.0	33.7	36.7	39.9	37.9	42.0	45.3
187.6	217.6	7.33	6.33	5.83	217.6	33.9	37.0	40.1	38.4	42.6	45.4
250.0	280.0	7.52	6.52	6.02	280.0	34.3	37.4	40.6	39.3	44.0	45.0
374.2	404.2	7.83	6.83	6.13	404.2	34.4	37.8	41.3	41.8	48.4	43.4
560.8	590.8	8.21	7.01	6.31	590.8	35.2	38.3	42.0	47.0	49.0	40.8
747.4	777.4	8.40	7.00	6.20	777.4	36.2	38.9	43.5	43.6	43.8	38.7
934.0	964.0	8.09	6.99	6.39	964.0	37.2	40.0	43.0	39.4	38.7	36.7
1120.6	1150.6	7.67	6.77	6.37	1150.6	37.5	40.1	42.6	36.2	37.4	36.2
1307.2	1337.2	7.80	6.90	6.50	1337.2	36.3	38.3	40.6	33.6	36.1	36.8
1350.0	1380.0	8.01	6.91	6.51	1380.0	36.0	38.2	40.3	32.7	35.5	36.6
1370.0	1400.0	8.20	7.00	6.50	1400.0	35.8	38.1	40.1	32.1	35.1	36.4
1400.0	1430.0	8.15	7.05	6.55	1430.0	35.7	37.9	39.5	31.8	34.9	36.5
1493.8	1523.8	8.80	7.10	6.60	1523.8	35.1	37.3	39.2	30.7	34.5	36.5
1680.4	1710.4	9.34	7.54	6.74	1710.4	33.6	35.2	37.4	29.7	32.6	35.7
1700.0	1730.0	9.26	7.46	6.76	1730.0	33.3	35.0	37.2	29.7	32.5	35.3
1800.0	1830.0	9.30	7.60	6.90	1830.0	32.2	33.8	35.7	29.3	31.7	34.2

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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)		
	+4	+7	+10	+4	+7	+10		+4	+7	+10
35.0	1.76	1.17	1.51	3.01	2.58	2.37	5.0	1.99	1.47	1.26
40.0	1.73	1.15	1.51	1.89	1.65	1.55	10.0	2.01	1.50	1.27
70.0	1.70	1.11	1.47	1.64	1.36	1.22	40.0	2.08	1.48	1.27
110.0	1.67	1.08	1.46	1.60	1.33	1.19	80.0	1.99	1.46	1.25
180.0	1.64	1.06	1.46	1.62	1.36	1.23	156.0	1.89	1.39	1.20
217.6	1.66	1.05	1.46	1.68	1.39	1.26	233.8	1.81	1.33	1.14
280.0	1.65	1.04	1.43	1.65	1.38	1.25	311.5	1.76	1.27	1.10
404.2	1.66	1.02	1.43	1.75	1.48	1.33	389.3	1.68	1.25	1.10
590.8	1.59	1.03	1.40	1.97	1.68	1.52	467.0	1.63	1.22	1.11
777.4	1.66	1.09	1.37	2.20	1.89	1.71	544.8	1.59	1.19	1.13
964.0	1.92	1.21	1.31	2.27	2.04	1.94	622.5	1.51	1.15	1.15
1150.6	2.16	1.37	1.30	2.20	2.03	1.94	700.3	1.44	1.13	1.20
1337.2	2.20	1.46	1.20	2.16	1.91	1.78	778.0	1.37	1.12	1.26
1380.0	2.25	1.46	1.18	2.27	1.96	1.84	855.8	1.31	1.16	1.37
1400.0	2.37	1.50	1.19	2.27	1.96	1.84	933.5	1.28	1.20	1.46
1430.0	2.27	1.50	1.17	2.27	1.96	1.82	1000.0	1.21	1.27	1.53
1523.8	2.35	1.57	1.17	2.30	1.91	1.77	1011.3	1.20	1.27	1.54
1710.4	2.30	1.59	1.12	2.30	1.94	1.76	1089.0	1.13	1.32	1.59
1730.0	2.27	1.59	1.13	2.32	1.96	1.80	1166.8	1.10	1.32	1.59
1830.0	2.32	1.61	1.13	2.49	2.10	1.91	1244.5	1.08	1.33	1.59