

Frequency Mixer

SYM-ED7814/1

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)		
		+7	+10	+13		+7	+10	+13	+7	+10	+13
246.0	276.0	6.23	5.63	5.33	276.0	17.0	19.6	21.4	40.4	40.8	40.8
442.0	472.0	5.54	4.94	4.64	472.0	21.7	23.8	25.7	36.3	36.0	35.8
638.0	668.0	5.74	5.24	4.94	668.0	25.1	27.3	28.6	32.9	32.2	31.6
834.0	864.0	5.68	5.18	4.98	864.0	25.5	25.9	25.7	29.2	27.7	26.3
1000.0	1030.0	5.60	5.10	4.90	1030.0	28.5	27.0	25.5	31.6	29.4	27.7
1030.0	1060.0	5.60	5.20	4.90	1060.0	29.7	28.3	26.8	32.6	30.5	28.7
1200.0	1230.0	6.04	5.54	5.24	1230.0	33.7	34.0	33.5	48.2	41.0	37.8
1226.0	1256.0	5.90	5.40	5.10	1256.0	33.9	34.3	34.0	54.2	44.7	39.9
1250.0	1280.0	6.13	5.53	5.23	1280.0	34.1	34.5	34.4	58.9	49.0	42.4
1422.0	1452.0	6.84	6.24	5.84	1452.0	34.8	35.8	36.3	39.2	42.2	45.4
1618.0	1648.0	6.99	6.29	5.89	1648.0	35.4	35.9	35.9	35.0	35.7	36.6
1690.0	1720.0	7.17	6.37	5.97	1720.0	35.3	35.8	35.8	35.1	35.5	36.0
1800.0	1830.0	7.22	6.32	5.92	1830.0	34.8	35.1	35.3	35.1	35.2	35.7
1814.0	1844.0	7.23	6.33	5.93	1844.0	34.7	35.0	35.2	35.1	35.2	35.7
1970.0	2000.0	7.27	6.47	5.97	2000.0	35.2	35.6	35.2	36.1	36.1	36.3
2000.0	2030.0	7.44	6.54	6.14	2030.0	35.3	35.8	35.5	36.1	36.0	36.1
2010.0	2040.0	7.45	6.45	6.15	2040.0	35.3	35.9	35.5	36.0	35.9	35.9
2100.0	2130.0	7.41	6.51	6.11	2130.0	35.3	35.7	35.8	34.9	34.5	34.5
2206.0	2236.0	7.42	6.42	6.02	2236.0	34.7	35.5	35.8	32.8	32.7	32.8
2402.0	2432.0	7.88	7.08	6.58	2432.0	34.5	36.0	37.7	30.6	30.8	31.2
2598.0	2628.0	8.43	7.53	7.03	2628.0	34.6	34.4	35.4	29.8	30.9	32.2
2794.0	2824.0	7.17	6.57	6.27	2824.0	34.3	35.2	36.7	30.3	32.6	35.4
2990.0	3020.0	6.41	5.91	5.71	3020.0	33.3	34.8	36.7	34.0	38.4	43.2
3000.0	3030.0	6.51	6.01	5.71	3030.0	33.4	34.8	36.7	34.5	38.7	43.5
3186.0	3216.0	6.39	5.99	5.79	3216.0	32.6	35.1	38.0	34.6	38.1	39.6
3382.0	3412.0	6.86	6.46	6.26	3412.0	33.5	37.0	41.2	35.6	38.7	40.0
3500.0	3530.0	7.10	6.80	6.60	3530.0	34.7	38.8	42.8	39.0	41.9	41.5
3578.0	3608.0	7.41	7.11	6.81	3608.0	34.4	38.3	41.7	43.9	45.2	41.8
3774.0	3804.0	8.13	7.83	7.53	3804.0	32.1	34.7	36.4	47.7	41.6	38.4
3970.0	4000.0	8.98	8.58	8.28	4000.0	29.9	31.8	33.3	36.9	36.2	35.1

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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)		
	+7	+10	+13	+7	+10	+13		+7	+10	+13
276.0	2.72	2.46	2.32	1.41	1.66	2.23	0.1	1.27	1.28	1.45
472.0	1.87	1.65	1.51	1.02	1.55	2.18	0.2	1.22	1.20	1.41
668.0	1.87	1.70	1.63	1.28	1.50	2.03	0.5	1.25	1.13	1.34
864.0	1.96	1.73	1.61	1.52	1.41	1.81	1.0	1.27	1.08	1.30
1030.0	2.14	1.85	1.71	1.69	1.54	1.89	2.0	1.28	1.06	1.30
1060.0	2.14	1.88	1.71	1.67	1.54	1.94	5.0	1.26	1.07	1.30
1230.0	2.88	2.55	2.35	1.74	1.50	1.77	10.0	1.26	1.07	1.30
1256.0	3.06	2.72	2.46	1.70	1.47	1.76	30.0	1.26	1.08	1.29
1280.0	3.16	2.76	2.55	1.73	1.47	1.75	50.0	1.27	1.11	1.31
1452.0	3.26	2.96	2.80	1.92	1.53	1.74	80.0	1.29	1.16	1.35
1648.0	3.21	2.92	2.72	2.18	1.65	1.70	100.0	1.30	1.19	1.37
1720.0	3.26	2.92	2.72	2.23	1.67	1.65	200.1	1.35	1.37	1.56
1830.0	3.50	3.11	2.88	2.35	1.68	1.59	300.0	1.44	1.58	1.80
1844.0	3.57	3.11	2.84	2.49	1.73	1.60	400.1	1.55	1.77	2.01
2000.0	3.71	3.21	2.92	2.65	1.69	1.44	500.0	1.62	1.89	2.14
2030.0	3.79	3.21	2.84	2.84	1.71	1.40	600.1	1.55	1.82	2.04
2040.0	3.79	3.11	2.84	2.72	1.69	1.39	700.1	1.36	1.63	1.85
2130.0	4.03	3.32	2.92	2.68	1.63	1.27	800.1	1.15	1.43	1.65
2236.0	4.03	3.32	2.96	2.49	1.50	1.13	900.1	1.16	1.34	1.56
2432.0	4.32	3.71	3.44	2.72	1.56	1.15	1000.0	1.41	1.43	1.57
2628.0	4.89	4.22	3.95	2.72	1.69	1.39	1100.0	1.63	1.55	1.59
2824.0	3.32	3.01	2.84	2.46	1.63	1.70	1200.0	1.82	1.67	1.62
3020.0	2.20	2.04	1.96	2.06	1.62	1.96	1300.0	2.04	1.85	1.75
3030.0	2.20	2.06	1.97	1.97	1.61	1.94	1400.0	2.37	2.16	2.03
3216.0	1.70	1.62	1.59	1.70	1.71	2.12	1500.0	2.76	2.55	2.40
3412.0	1.48	1.54	1.62	1.63	1.97	2.49	1600.0	3.32	3.06	2.88
3530.0	1.49	1.67	1.81	1.77	2.40	3.11	1700.0	3.79	3.57	3.38
3608.0	1.54	1.76	1.96	1.87	2.68	3.64	1800.0	4.22	3.26	3.79
3804.0	1.92	2.14	2.32	2.01	2.72	3.50	1900.0	4.53	4.32	4.12
4000.0	2.72	2.92	3.06	2.46	3.11	3.86	2000.0	4.22	3.71	3.44