

Frequency Mixer

SYM-ED7979/1

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
1290.0	1320.0	8.44	7.24	6.74	1320.0	28.7	30.0	31.1	25.3	24.2	22.3
1450.0	1480.0	7.11	6.01	5.91	1480.0	28.2	32.0	33.1	30.0	27.9	24.8
1500.0	1530.0	6.82	5.92	5.72	1530.0	28.6	33.0	34.5	30.2	27.7	25.7
1610.0	1640.0	6.33	5.63	5.53	1640.0	30.0	37.6	41.9	32.4	29.5	27.0
1770.0	1800.0	5.98	5.68	5.68	1800.0	32.3	42.4	52.6	30.7	30.3	29.3
1930.0	1960.0	6.12	6.02	5.92	1960.0	28.2	35.6	44.9	29.9	30.7	31.3
1950.0	1980.0	5.96	5.76	5.76	1980.0	26.8	34.3	44.7	29.2	30.4	31.4
2000.0	2030.0	5.60	5.50	5.50	2030.0	26.2	32.6	43.0	29.4	30.7	31.9
2090.0	2120.0	5.33	5.33	5.33	2120.0	30.5	36.5	50.8	31.6	32.5	33.2
2200.0	2230.0	5.28	5.18	5.18	2230.0	32.9	41.9	45.8	32.1	33.0	33.4
2250.0	2280.0	5.42	5.02	5.02	2280.0	28.8	33.3	37.3	31.3	32.4	33.0
2300.0	2330.0	6.19	5.29	4.99	2330.0	26.0	29.2	32.4	31.4	32.6	33.3
2410.0	2440.0	8.63	6.73	5.83	2440.0	26.9	29.0	30.7	33.4	34.6	34.7
2500.0	2530.0	8.44	7.04	6.14	2530.0	27.1	30.2	33.1	32.0	34.2	34.0
2570.0	2600.0	8.32	6.62	5.82	2600.0	24.9	28.0	31.9	30.1	33.2	35.0
2700.0	2730.0	8.02	6.82	6.12	2730.0	25.4	27.9	30.2	32.5	36.6	33.7
2730.0	2760.0	7.97	6.87	6.27	2760.0	25.6	28.2	30.7	32.4	36.3	33.6
2890.0	2920.0	7.34	6.74	6.44	2920.0	25.4	28.8	32.1	30.5	32.9	39.7
3000.0	3030.0	6.59	6.09	5.99	3030.0	25.1	27.7	30.5	39.2	43.0	49.6
3050.0	3080.0	6.58	6.08	5.88	3080.0	25.3	28.1	30.7	41.5	44.5	42.0
3200.0	3230.0	6.28	5.78	5.68	3230.0	25.3	29.0	33.7	41.4	39.3	34.0
3210.0	3240.0	6.29	5.69	5.69	3240.0	24.4	28.9	34.1	41.4	39.5	33.7
3370.0	3400.0	6.35	5.75	5.65	3400.0	23.6	26.5	32.2	38.9	37.5	32.8
3500.0	3530.0	7.10	6.60	6.50	3530.0	25.4	28.1	31.9	36.3	33.6	31.0
3530.0	3560.0	7.40	6.70	6.60	3560.0	26.0	28.6	32.0	36.4	33.1	30.4
3570.0	3600.0	7.59	6.89	6.69	3600.0	26.2	28.9	32.2	35.7	32.1	29.5
3600.0	3630.0	7.53	6.93	6.73	3630.0	26.1	28.9	32.0	35.4	31.7	28.8

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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
1320.0	4.77	3.95	3.50	6.26	2.92	2.01	0.1	1.61	1.24	1.07
1480.0	3.16	2.58	2.58	4.64	2.27	1.85	0.2	1.61	1.23	1.07
1530.0	2.52	2.32	2.32	3.64	2.03	1.76	0.5	1.67	1.28	1.11
1640.0	2.03	2.14	2.20	3.16	1.80	1.65	1.0	1.73	1.31	1.13
1800.0	1.94	2.32	2.52	2.80	1.49	1.54	5.0	1.68	1.29	1.11
1960.0	1.89	2.32	2.61	2.43	1.33	1.51	10.0	1.70	1.29	1.11
1980.0	1.81	2.25	2.58	2.32	1.29	1.48	30.0	1.67	1.30	1.15
2030.0	1.70	2.18	2.55	2.30	1.27	1.48	50.0	1.67	1.33	1.19
2120.0	1.89	2.23	2.55	2.12	1.20	1.44	100.0	1.73	1.41	1.29
2230.0	1.62	1.81	1.92	2.06	1.21	1.40	150.1	1.74	1.46	1.35
2280.0	1.25	1.27	1.30	2.23	1.24	1.43	200.1	1.70	1.45	1.36
2330.0	1.70	1.54	1.49	2.27	1.29	1.44	250.0	1.63	1.40	1.36
2440.0	3.44	2.96	2.68	2.52	1.43	1.44	300.1	1.54	1.39	1.40
2530.0	4.22	3.79	3.44	2.65	1.54	1.43	350.1	1.50	1.44	1.51
2600.0	4.32	3.79	3.50	2.61	1.54	1.36	400.1	1.55	1.56	1.66
2730.0	4.12	3.79	3.44	3.06	1.64	1.30	450.1	1.62	1.70	1.82
2760.0	3.79	3.50	3.26	2.92	1.60	1.27	500.0	1.73	1.84	1.97
2920.0	3.01	2.92	2.88	3.38	1.77	1.27	550.0	1.87	2.03	2.14
3030.0	3.11	2.96	2.92	2.92	1.71	1.27	600.0	1.99	2.16	2.32
3080.0	3.01	2.88	2.80	3.26	1.85	1.27	650.0	2.18	2.37	2.49
3230.0	2.55	2.40	2.40	3.32	1.88	1.24	700.0	2.40	2.58	2.76
3240.0	2.49	2.35	2.37	3.57	1.96	1.23	750.0	2.68	2.96	3.11
3400.0	2.58	2.37	2.37	4.42	2.18	1.28	800.0	3.06	3.26	3.44
3530.0	3.06	2.96	3.01	6.05	2.49	1.42	850.0	3.38	3.64	3.86
3560.0	3.21	3.16	3.16	5.17	2.32	1.40	900.0	3.86	4.12	4.42
3600.0	3.50	3.38	3.44	5.85	2.43	1.47	950.0	4.32	4.64	4.89
3630.0	3.71	3.71	3.71	6.26	2.52	1.47	1000.0	4.89	5.33	5.49