

Frequency Mixer

SYM-EDR5073

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
10.1	80.1	6.76	6.09	5.89	10.1	49.8	55.5	45.2	34.8	39.3	42.7
20.1	90.1	6.80	6.12	5.93	20.1	52.2	59.8	63.8	35.3	40.2	46.3
50.1	120.1	6.68	6.03	5.86	50.1	52.4	60.4	58.6	35.0	39.8	46.2
80.1	150.1	6.80	6.14	5.95	80.1	51.6	62.3	56.4	34.8	39.4	45.6
100.1	170.1	6.81	6.13	5.93	100.1	51.4	66.0	53.8	34.6	39.4	45.3
150.1	220.1	6.77	6.14	5.96	130.1	51.1	67.7	51.2	34.6	39.3	44.7
200.1	270.1	6.81	6.16	5.96	160.1	51.0	72.3	49.9	34.5	39.1	44.6
300.1	370.1	6.86	6.19	5.97	200.1	52.2	64.5	47.5	35.0	39.6	44.0
400.1	470.1	6.85	6.17	5.95	300.1	53.3	55.8	45.0	35.5	40.3	42.0
500.1	570.1	6.87	6.17	5.97	400.1	58.9	53.2	43.8	36.6	40.6	40.5
569.2	639.2	6.93	6.27	6.05	500.1	57.2	53.2	42.7	38.3	41.2	40.3
653.0	723.0	6.95	6.27	6.07	563.5	54.0	53.7	43.0	40.0	41.5	40.4
736.9	806.9	6.91	6.27	6.06	644.2	51.1	55.6	44.5	41.6	41.4	40.4
820.7	890.7	6.88	6.27	6.08	724.9	48.9	51.5	45.5	41.0	39.2	38.9
904.5	974.5	6.91	6.26	6.07	805.6	46.0	50.0	46.0	39.6	38.0	37.8
1000.1	1070.1	7.05	6.40	6.25	886.3	44.3	49.7	45.8	39.0	37.4	36.8
1072.2	1142.2	7.02	6.37	6.21	1000.1	42.0	47.2	47.3	37.3	36.3	35.9
1156.0	1226.0	7.12	6.45	6.24	1047.7	40.9	45.9	46.0	36.8	35.8	35.4
1239.8	1309.8	7.34	6.57	6.34	1128.4	39.8	43.8	43.7	36.1	35.2	35.0
1323.6	1393.6	7.49	6.63	6.38	1209.1	39.2	42.3	42.5	35.1	35.0	34.7
1407.5	1477.5	7.54	6.69	6.43	1250.1	38.7	41.5	41.6	35.2	35.2	34.8
1500.1	1570.1	7.55	6.68	6.39	1370.4	38.2	40.8	41.0	36.6	36.8	36.6
1575.1	1645.1	7.67	6.78	6.50	1451.1	38.5	42.0	42.1	38.8	38.2	37.5
1658.9	1728.9	7.70	6.79	6.51	1500.1	38.9	43.3	43.1	40.3	39.7	38.2
1742.7	1812.7	7.81	6.90	6.60	1612.5	40.7	48.8	47.2	44.8	43.1	38.9
1826.6	1896.6	7.93	7.03	6.70	1693.2	42.0	52.5	49.9	46.7	46.8	40.2
1910.4	1980.4	8.07	7.14	6.78	1773.9	42.8	53.9	54.1	45.3	54.3	46.0
2000.1	2070.1	8.40	7.45	6.95	1854.6	41.8	49.4	67.9	42.0	50.0	52.4
2078.0	2148.0	8.61	7.68	7.17	1935.3	40.9	46.6	55.7	38.8	42.4	44.2
2161.9	2231.9	8.67	7.68	7.21	2000.1	39.6	44.2	49.3	37.5	40.0	42.4
2245.7	2315.7	8.65	7.72	7.24	2096.7	37.8	41.1	43.9	34.6	35.8	36.8
2329.5	2399.5	8.63	7.70	7.23	2177.3	36.7	39.5	42.0	33.3	34.1	34.6
2413.3	2483.3	8.54	7.58	7.21	2258.0	35.6	38.4	40.9	31.9	32.6	32.9
2500.1	2570.1	8.37	7.50	7.13	2338.7	34.8	37.5	40.4	30.8	31.1	31.4
2581.0	2651.0	8.21	7.38	7.03	2419.4	34.4	37.1	39.9	29.4	29.7	29.9
2664.8	2734.8	8.17	7.37	7.05	2500.1	34.0	36.3	38.6	28.2	28.2	28.4
2748.6	2818.6	8.11	7.41	7.06	2550.1	33.7	35.7	37.6	27.6	27.5	27.5
2832.5	2902.5	8.15	7.45	7.10	2662.6	32.1	33.6	34.8	26.6	26.5	26.3
2916.3	2986.3	8.38	7.59	7.28	2887.6	29.2	29.6	29.8	24.9	24.9	24.8
3000.1	2930.1	8.37	7.58	7.32	3000.1	28.3	28.3	28.0	24.1	24.1	24.0

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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
10.1	1.08	1.54	2.16	1.08	1.54	2.16	0.1	1.77	2.05	2.31
20.1	1.07	1.50	2.29	1.07	1.50	2.29	0.2	1.54	1.67	1.79
50.1	1.08	1.55	2.38	1.08	1.55	2.38	0.3	1.42	1.49	1.57
80.1	1.07	1.51	2.33	1.07	1.51	2.33	0.4	1.35	1.39	1.46
100.1	1.08	1.50	2.27	1.08	1.50	2.27	0.5	1.31	1.33	1.40
130.1	1.11	1.51	2.34	1.11	1.51	2.34	0.8	1.27	1.24	1.30
160.1	1.12	1.50	2.38	1.12	1.50	2.38	1.1	1.26	1.20	1.25
200.1	1.11	1.51	2.23	1.11	1.51	2.23	5.1	1.29	1.11	1.08
300.1	1.16	1.49	2.24	1.16	1.49	2.24	10.1	1.30	1.11	1.05
400.1	1.21	1.48	2.28	1.21	1.48	2.28	20.1	1.31	1.10	1.04
500.1	1.29	1.42	2.23	1.29	1.42	2.23	33.4	1.31	1.10	1.03
563.5	1.29	1.36	1.94	1.29	1.36	1.94	50.1	1.31	1.10	1.03
644.2	1.33	1.28	1.78	1.33	1.28	1.78	60.1	1.31	1.10	1.03
724.9	1.36	1.25	1.71	1.36	1.25	1.71	73.4	1.31	1.10	1.04
805.6	1.41	1.23	1.66	1.41	1.23	1.66	86.8	1.30	1.10	1.04
886.3	1.50	1.21	1.67	1.50	1.21	1.67	100.1	1.30	1.10	1.04
1000.1	1.53	1.14	1.55	1.53	1.14	1.55	150.1	1.30	1.10	1.04
1047.7	1.58	1.13	1.61	1.58	1.13	1.61	200.1	1.30	1.10	1.05
1128.4	1.65	1.10	1.61	1.65	1.10	1.61	239.6	1.30	1.11	1.05
1209.1	1.63	1.07	1.59	1.63	1.07	1.59	284.3	1.31	1.11	1.05
1250.1	1.51	1.06	1.52	1.51	1.06	1.52	329.0	1.32	1.12	1.05
1370.4	1.53	1.10	1.60	1.53	1.10	1.60	373.8	1.32	1.13	1.05
1451.1	1.48	1.14	1.58	1.48	1.14	1.58	418.5	1.33	1.13	1.05
1500.1	1.45	1.19	1.61	1.45	1.19	1.61	463.3	1.33	1.13	1.04
1612.5	1.34	1.26	1.67	1.34	1.26	1.67	500.1	1.33	1.13	1.04
1693.2	1.32	1.32	1.76	1.32	1.32	1.76	552.7	1.32	1.13	1.03
1773.9	1.28	1.38	1.88	1.28	1.38	1.88	597.5	1.32	1.13	1.03
1854.6	1.24	1.44	1.97	1.24	1.44	1.97	642.2	1.31	1.13	1.02
1935.3	1.21	1.52	2.07	1.21	1.52	2.07	686.9	1.31	1.13	1.02
2000.1	1.21	1.56	2.14	1.21	1.56	2.14	731.7	1.32	1.13	1.02
2096.7	1.21	1.65	2.22	1.21	1.65	2.22	776.4	1.33	1.14	1.02
2177.3	1.23	1.70	2.26	1.23	1.70	2.26	821.2	1.34	1.15	1.02
2258.0	1.26	1.74	2.31	1.26	1.74	2.31	865.9	1.35	1.16	1.03
2338.7	1.31	1.80	2.38	1.31	1.80	2.38	900.1	1.36	1.16	1.03
2419.4	1.35	1.85	2.44	1.35	1.85	2.44	955.4	1.37	1.17	1.04
2500.1	1.44	1.95	2.55	1.44	1.95	2.55	1000.1	1.37	1.17	1.05
2550.1	1.55	2.12	2.79	1.55	2.12	2.79	1050.1	1.36	1.17	1.07
2662.6	1.63	2.14	2.74	1.63	2.14	2.74	1100.1	1.34	1.17	1.08
2887.6	2.15	2.76	3.65	2.15	2.76	3.65	1150.1	1.33	1.17	1.09
3000.1	2.20	2.61	3.19	2.20	2.61	3.19	1200.1	1.32	1.17	1.11