

Frequency Mixer

SYM-EDR4554/2

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)			RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)			RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+10dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+10	+13	+16			+10	+13	+16			+10	+13	+16
10.1	40.1	6.24	5.67	5.40	10.1	40.1	26.91	26.93	25.55	10.1	40.1	0.96	0.46	0.24
89.8	119.8	6.57	6.03	5.72	89.8	119.8	21.63	22.70	22.23	90.9	120.9	0.84	0.40	0.20
169.5	199.5	6.65	6.13	5.83	169.5	199.5	19.30	20.54	23.15	171.8	201.8	0.80	0.38	0.21
249.3	279.3	6.78	6.28	5.95	249.3	279.3	18.74	21.53	21.80	252.6	282.6	0.85	0.42	0.22
329.0	359.0	6.91	6.38	6.02	329.0	359.0	20.19	21.17	20.66	333.5	363.5	0.87	0.48	0.28
408.7	438.7	7.04	6.43	6.02	408.7	438.7	20.61	20.49	21.40	414.3	444.3	0.81	0.50	0.30
488.4	518.4	7.29	6.55	6.10	488.4	518.4	19.00	19.55	21.12	495.1	525.1	0.80	0.51	0.32
568.2	598.2	7.48	6.68	6.18	568.2	598.2	18.73	19.42	21.98	576.0	606.0	0.72	0.46	0.26
647.9	677.9	7.39	6.64	6.20	647.9	677.9	20.56	20.90	24.60	656.8	686.8	0.78	0.49	0.28
727.6	757.6	7.35	6.67	6.28	727.6	757.6	19.96	20.96	26.52	737.7	767.7	0.90	0.46	0.26
807.3	837.3	7.33	6.70	6.36	807.3	837.3	18.79	21.82	28.77	818.5	848.5	0.84	0.41	0.22
887.1	917.1	7.28	6.71	6.40	887.1	917.1	19.58	23.61	36.77	899.3	929.3	0.90	0.36	0.20
966.8	996.8	7.27	6.72	6.41	966.8	996.8	20.14	25.37	32.29	980.2	1010.2	0.89	0.35	0.20
1046.5	1076.5	7.33	6.75	6.44	1046.5	1076.5	19.88	26.85	30.42	1061.0	1091.0	0.85	0.35	0.19
1126.2	1156.2	7.60	6.90	6.55	1126.2	1156.2	19.44	25.73	28.53	1141.8	1171.8	0.80	0.38	0.23
1206.0	1236.0	7.92	7.12	6.71	1206.0	1236.0	19.08	25.43	27.89	1202.5	1232.5	0.83	0.44	0.28
1285.7	1315.7	8.33	7.38	6.93	1285.7	1315.7	18.49	22.77	31.33	1283.3	1313.3	0.69	0.42	0.28
1365.4	1395.4	8.88	7.74	7.21	1365.4	1395.4	17.70	21.68	28.83	1343.9	1373.9	0.65	0.45	0.30
1445.1	1475.1	9.56	8.17	7.54	1445.1	1475.1	18.40	21.74	26.78	1424.8	1454.8	0.36	0.36	0.23
1504.9	1534.9	10.10	8.53	7.79	1504.9	1534.9	20.17	22.82	28.17	1485.4	1515.4	0.25	0.34	0.23
1584.7	1614.7	10.78	8.91	8.09	1584.7	1614.7	20.46	25.93	28.93	1566.3	1596.3	0.06	0.22	0.15
1644.4	1674.4	11.15	9.24	8.36	1644.4	1674.4	21.96	26.85	26.95	1626.9	1656.9	-0.07	0.15	0.11
1724.2	1754.2	11.55	9.56	8.57	1724.2	1754.2	20.84	26.53	26.32	1707.7	1737.7	-0.23	0.06	0.07
1784.0	1814.0	11.97	9.77	8.72	1784.0	1814.0	20.81	27.22	27.06	1768.4	1798.4	-0.36	0.00	0.03
1863.7	1893.7	12.17	9.86	8.78	1863.7	1893.7	19.36	26.68	25.39	1849.2	1879.2	-0.38	-0.01	0.02
1923.5	1953.5	12.13	9.79	8.79	1923.5	1953.5	19.63	26.34	25.07	1909.8	1939.8	-0.49	0.02	0.05
2003.2	2033.2	12.18	9.82	8.83	2003.2	2033.2	18.54	24.83	23.71	1990.7	2020.7	-0.49	0.07	0.09
2063.0	2093.0	12.27	9.85	8.86	2063.0	2093.0	18.17	23.36	23.10	2051.3	2081.3	-0.38	0.13	0.13
2142.7	2172.7	11.92	9.84	8.89	2142.7	2172.7	19.31	22.84	22.86	2132.1	2162.1	-0.15	0.23	0.18
2202.5	2232.5	11.81	9.76	8.90	2202.5	2232.5	20.64	22.28	23.02	2192.8	2222.8	-0.03	0.31	0.22
2282.2	2312.2	11.59	9.72	8.90	2282.2	2312.2	23.41	22.54	22.39	2273.6	2303.6	0.20	0.41	0.28
2342.0	2372.0	11.41	9.60	8.87	2342.0	2372.0	23.23	22.01	22.18	2334.2	2364.2	0.46	0.49	0.33
2421.8	2451.8	11.14	9.56	8.85	2421.8	2451.8	21.19	21.41	21.84	2415.1	2445.1	0.69	0.61	0.41
2481.5	2511.5	11.27	9.58	8.86	2481.5	2511.5	20.90	21.80	21.93	2475.7	2505.7	0.81	0.70	0.48
2561.3	2591.3	11.29	9.60	8.85	2561.3	2591.3	19.79	21.11	21.34	2556.5	2586.5	0.96	0.77	0.51
2621.1	2651.1	11.11	9.64	8.90	2621.1	2651.1	19.43	21.05	20.87	2617.2	2647.2	1.12	0.81	0.54
2700.8	2730.8	11.24	9.69	8.94	2700.8	2730.8	18.38	20.29	20.40	2698.0	2728.0	1.28	0.90	0.58
2760.6	2790.6	11.40	9.77	9.01	2760.6	2790.6	17.69	19.65	20.03	2758.6	2788.6	1.41	0.98	0.62
2840.3	2870.3	11.65	10.02	9.19	2840.3	2870.3	17.34	20.04	20.19	2839.5	2869.5	1.52	1.03	0.61
2900.1	2930.1	11.94	10.29	9.43	2900.1	2930.1	17.29	20.11	20.20	2900.1	2930.1	1.56	1.02	0.60

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=750.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=10.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1500.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+13			+13			+13
730.0	20.1	6.76	10.0	20.1	5.87	1000.0	500.1	8.46
711.5	38.6	6.74	30.2	40.3	5.72	979.8	520.3	8.50
693.1	57.0	6.76	50.4	60.5	5.81	959.6	540.5	8.45
674.6	75.5	6.84	70.6	80.7	5.80	939.4	560.7	8.44
656.2	93.9	6.83	90.8	100.9	5.80	919.2	580.9	8.47
637.7	112.4	6.83	111.0	121.1	5.84	899.0	601.1	8.40
619.2	130.9	6.80	131.2	141.3	5.77	878.8	621.3	8.35
600.8	149.3	6.86	151.4	161.5	5.78	858.6	641.5	8.40
582.3	167.8	6.87	171.6	181.7	5.85	838.4	661.7	8.35
563.8	186.3	6.94	191.8	201.9	5.87	818.2	681.9	8.28
545.4	204.7	6.89	212.0	222.1	5.81	798.0	702.1	8.30
526.9	223.2	6.87	232.2	242.3	5.82	777.8	722.3	8.22
508.5	241.6	6.90	252.4	262.5	5.87	757.6	742.5	8.18
490.0	260.1	6.96	272.7	282.8	5.85	737.3	762.8	8.19
471.5	278.6	6.93	292.9	303.0	5.88	717.1	783.0	8.11
453.1	297.0	6.91	313.1	323.2	5.91	696.9	803.2	8.10
434.6	315.5	6.91	333.3	343.4	5.88	676.7	823.4	8.09
416.2	333.9	6.91	353.5	363.6	5.87	656.5	843.6	8.06
397.7	352.4	6.94	373.7	383.8	5.96	636.3	863.8	8.05
379.2	370.9	6.97	393.9	404.0	5.92	616.1	884.0	8.04
360.8	389.3	6.92	434.3	444.4	5.93	575.7	924.4	8.01
342.3	407.8	6.85	454.5	464.6	5.91	555.5	944.6	8.04
323.8	426.3	6.92	494.9	505.0	5.92	515.1	985.0	8.00
305.4	444.7	6.94	515.1	525.2	5.87	494.9	1005.2	8.03
286.9	463.2	6.94	555.5	565.6	5.95	454.5	1045.6	8.06
268.5	481.6	6.87	575.7	585.8	5.95	434.3	1065.8	8.07
250.0	500.1	6.89	616.1	626.2	5.91	393.9	1106.2	8.11
231.5	518.6	6.91	636.3	646.4	5.92	373.7	1126.4	8.16
213.1	537.0	6.97	676.7	686.8	5.93	333.3	1166.8	8.18
194.6	555.5	6.91	696.9	707.0	5.89	313.1	1187.0	8.24
176.2	573.9	6.87	737.3	747.4	5.95	272.7	1227.4	8.28
157.7	592.4	6.90	757.6	767.7	5.94	252.4	1247.7	8.32
139.2	610.9	6.92	798.0	808.1	5.96	212.0	1288.1	8.34
120.8	629.3	6.88	818.2	828.3	5.97	191.8	1308.3	8.35
102.3	647.8	6.79	858.6	868.7	6.00	151.4	1348.7	8.39
83.8	666.3	6.82	878.8	888.9	6.01	131.2	1368.9	8.40
65.4	684.7	6.78	919.2	929.3	6.03	90.8	1409.3	8.39
46.9	703.2	6.80	939.4	949.5	6.03	70.6	1429.5	8.46
28.5	721.6	6.76	979.8	989.9	6.06	30.2	1469.9	8.41
10.0	740.1	6.86	1000.0	1010.1	6.05	10.0	1490.1	8.55

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LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+10	+13	+16	+10	+13	+16
10.1	33.70	36.21	38.58	47.70	52.79	56.39
89.8	34.76	37.35	39.69	47.90	52.06	55.51
169.5	35.14	37.55	39.29	48.98	52.55	53.28
249.3	35.56	37.56	38.31	50.43	51.35	50.10
329.0	36.30	37.60	37.64	49.82	48.38	47.98
408.7	37.14	37.57	37.47	46.58	45.73	45.07
488.4	37.83	37.69	37.21	43.16	43.10	42.12
568.2	38.25	38.09	37.72	40.54	40.65	39.44
647.9	38.79	38.77	37.90	39.31	38.86	36.85
727.6	39.58	39.65	38.74	38.33	36.77	34.34
807.3	40.52	41.48	39.89	38.32	35.61	33.02
887.1	41.28	43.08	41.14	38.67	34.97	32.16
966.8	40.89	43.13	41.99	38.47	34.22	31.21
1046.5	39.84	42.83	43.27	36.20	32.67	30.10
1126.2	38.27	41.86	45.09	33.18	31.03	28.89
1206.0	36.53	40.59	46.87	30.65	29.44	27.83
1285.7	35.12	39.06	45.09	28.89	28.16	27.12
1365.4	33.89	37.34	42.46	27.62	27.30	26.53
1445.1	32.89	35.69	39.54	26.59	26.52	26.01
1504.9	32.12	34.33	37.22	25.94	25.99	25.65
1584.7	30.98	32.57	34.51	25.33	25.47	25.21
1644.4	30.13	31.43	33.09	24.84	24.92	24.96
1724.2	29.24	30.32	31.61	24.39	24.37	24.56
1784.0	28.68	29.73	30.74	23.97	24.08	24.33
1863.7	28.06	29.01	29.97	23.49	23.57	24.00
1923.5	27.62	28.49	29.42	23.08	23.04	23.54
2003.2	27.07	28.03	28.86	22.51	22.62	23.22
2063.0	26.75	27.65	28.54	22.16	22.32	23.12
2142.7	26.18	27.21	28.16	21.47	22.03	22.99
2202.5	25.77	26.84	27.80	21.03	21.64	22.78
2282.2	25.27	26.25	27.19	20.39	21.33	22.65
2342.0	25.04	26.02	26.91	20.05	21.19	22.67
2421.8	24.62	25.57	26.51	19.48	20.82	22.60
2481.5	24.43	25.45	26.37	19.30	20.81	22.72
2561.3	24.27	25.41	26.30	19.19	20.95	23.04
2621.1	24.09	25.41	26.32	18.98	20.91	23.04
2700.8	23.71	25.33	26.47	18.82	21.03	23.35
2760.6	23.61	25.37	26.68	18.98	21.34	23.79
2840.3	23.43	25.41	26.88	19.08	21.68	24.29
2900.1	23.18	25.30	26.96	19.11	21.90	24.69

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+10	+13	+16
10.1	40.1	39.18	39.45	40.91
90.9	120.9	39.21	39.93	40.05
171.8	201.8	39.26	39.43	39.44
252.6	282.6	39.90	40.14	40.16
333.5	363.5	41.26	41.08	41.31
414.3	444.3	42.36	42.29	42.42
495.1	525.1	45.44	44.18	42.62
576.0	606.0	49.17	45.86	42.80
656.8	686.8	50.09	43.66	40.43
737.7	767.7	45.28	39.96	38.41
818.5	848.5	44.31	40.40	39.03
899.3	929.3	48.64	42.94	40.69
980.2	1010.2	54.01	43.80	40.87
1061.0	1091.0	48.49	43.73	40.70
1141.8	1171.8	46.38	45.25	42.29
1202.5	1232.5	47.25	49.03	45.36
1283.3	1313.3	48.61	51.03	46.29
1343.9	1373.9	44.01	42.85	40.75
1424.8	1454.8	38.48	37.55	36.31
1485.4	1515.4	35.53	34.54	33.66
1566.3	1596.3	33.52	32.76	32.11
1626.9	1656.9	32.77	32.35	32.03
1707.7	1737.7	33.05	33.06	33.38
1768.4	1798.4	33.45	33.74	34.45
1849.2	1879.2	34.45	35.14	36.31
1909.8	1939.8	35.50	36.70	38.32
1990.7	2020.7	36.67	38.40	39.70
2051.3	2081.3	37.51	39.11	39.90
2132.1	2162.1	38.31	38.35	38.09
2192.8	2222.8	38.56	36.88	35.96
2273.6	2303.6	37.45	34.90	33.52
2334.2	2364.2	35.66	33.08	31.73
2415.1	2445.1	33.38	31.18	29.85
2475.7	2505.7	31.98	29.81	28.57
2556.5	2586.5	30.25	28.33	27.21
2617.2	2647.2	28.75	27.14	26.31
2698.0	2728.0	27.30	26.01	25.18
2758.6	2788.6	26.29	25.18	24.50
2839.5	2869.5	24.99	24.15	23.65
2900.1	2930.1	24.08	23.48	23.14

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RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1500.1MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+10	+13	+16		+10	+13	+16		+10	+13	+16
10.1	40.1	1.45	1.25	1.15	10.1	1.22	1.26	1.84	10.0	1.87	1.35	1.17
90.9	120.9	1.51	1.31	1.19	89.8	1.20	1.28	1.82	30.2	1.86	1.29	1.08
171.8	201.8	1.52	1.33	1.23	169.5	1.21	1.27	1.82	50.4	1.79	1.25	1.08
252.6	282.6	1.54	1.38	1.27	249.3	1.23	1.27	1.83	70.6	1.77	1.22	1.05
333.5	363.5	1.63	1.45	1.34	329.0	1.25	1.26	1.80	90.8	1.79	1.24	1.04
414.3	444.3	1.73	1.52	1.39	408.7	1.26	1.24	1.75	111.0	1.83	1.28	1.10
495.1	525.1	1.78	1.55	1.43	488.4	1.26	1.22	1.70	131.2	1.84	1.30	1.15
576.0	606.0	1.83	1.60	1.49	568.2	1.26	1.19	1.66	151.4	1.78	1.27	1.14
656.8	686.8	1.85	1.64	1.53	647.9	1.30	1.16	1.61	171.6	1.75	1.25	1.14
737.7	767.7	1.87	1.68	1.60	727.6	1.34	1.13	1.58	191.8	1.78	1.28	1.16
818.5	848.5	1.88	1.71	1.64	807.3	1.39	1.10	1.54	212.0	1.81	1.30	1.19
899.3	929.3	1.85	1.68	1.61	887.1	1.42	1.07	1.49	232.2	1.77	1.29	1.21
980.2	1010.2	1.83	1.67	1.60	966.8	1.46	1.05	1.45	252.4	1.73	1.28	1.23
1061.0	1091.0	1.90	1.73	1.65	1046.5	1.51	1.05	1.42	272.7	1.71	1.28	1.23
1141.8	1171.8	2.04	1.83	1.73	1126.2	1.54	1.05	1.38	292.9	1.72	1.29	1.24
1202.5	1232.5	2.16	1.92	1.81	1206.0	1.57	1.06	1.34	313.1	1.73	1.31	1.28
1283.3	1313.3	2.26	2.00	1.88	1285.7	1.59	1.07	1.31	333.3	1.71	1.33	1.31
1343.9	1373.9	2.29	2.03	1.91	1365.4	1.62	1.09	1.28	353.5	1.67	1.30	1.30
1424.8	1454.8	2.36	2.11	1.99	1445.1	1.64	1.10	1.26	373.7	1.63	1.28	1.29
1485.4	1515.4	2.49	2.23	2.10	1504.9	1.65	1.11	1.25	393.9	1.64	1.31	1.32
1566.3	1596.3	2.76	2.48	2.35	1584.7	1.66	1.13	1.22	434.3	1.62	1.31	1.35
1626.9	1656.9	2.92	2.63	2.49	1644.4	1.67	1.15	1.20	454.5	1.58	1.30	1.36
1707.7	1737.7	2.93	2.66	2.51	1724.2	1.70	1.17	1.18	494.9	1.57	1.30	1.34
1768.4	1798.4	2.80	2.55	2.42	1784.0	1.70	1.19	1.16	515.1	1.56	1.31	1.36
1849.2	1879.2	2.65	2.42	2.30	1863.7	1.70	1.21	1.13	555.5	1.52	1.31	1.39
1909.8	1939.8	2.66	2.41	2.29	1923.5	1.73	1.24	1.11	575.7	1.47	1.27	1.37
1990.7	2020.7	2.76	2.50	2.37	2003.2	1.75	1.26	1.11	616.1	1.49	1.30	1.39
2051.3	2081.3	2.77	2.52	2.39	2063.0	1.72	1.28	1.12	636.3	1.49	1.30	1.40
2132.1	2162.1	2.57	2.36	2.25	2142.7	1.73	1.31	1.14	676.7	1.42	1.31	1.42
2192.8	2222.8	2.36	2.16	2.06	2202.5	1.76	1.33	1.16	696.9	1.41	1.28	1.39
2273.6	2303.6	2.13	1.96	1.87	2282.2	1.74	1.34	1.19	737.3	1.41	1.30	1.42
2334.2	2364.2	2.07	1.91	1.83	2342.0	1.70	1.35	1.22	757.6	1.40	1.30	1.42
2415.1	2445.1	2.10	1.94	1.86	2421.8	1.70	1.37	1.25	798.0	1.33	1.27	1.42
2475.7	2505.7	2.12	1.94	1.85	2481.5	1.68	1.38	1.28	818.2	1.34	1.27	1.41
2556.5	2586.5	2.00	1.82	1.72	2561.3	1.64	1.39	1.32	858.6	1.33	1.26	1.41
2617.2	2647.2	1.84	1.69	1.60	2621.1	1.62	1.40	1.34	878.8	1.31	1.28	1.43
2698.0	2728.0	1.71	1.57	1.49	2700.8	1.60	1.41	1.38	919.2	1.26	1.25	1.41
2758.6	2788.6	1.71	1.57	1.48	2760.6	1.57	1.42	1.40	939.4	1.26	1.25	1.42
2839.5	2869.5	1.78	1.63	1.54	2840.3	1.53	1.44	1.44	979.8	1.26	1.27	1.44
2900.1	2930.1	1.81	1.65	1.55	2900.1	1.52	1.44	1.46	1000.0	1.21	1.28	1.46

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	11	18	10	26	22	28	32	42	46	46
1	-	36	+0	44	14	48	33	54	37	46	37	49
2	96	56	48	57	48	66	48	61	68	68	69	61
3	>100	81	59	74	59	72	59	72	62	81	66	83
4	>100	>88	84	86	87	82	86	85	82	>88	>88	>88
5	>100	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
6	>100	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
7	>100	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
8	>100	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
9	>100	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
10	>100	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 750.1 MHz; -5.00 dBm.
LO IN: 780.01 MHz; +13.00 dBm
IF OUT: 29.91 MHz; -11.7 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	19	28	22	40	35	41	44	54	55	57
1	-	36	+0	48	14	47	34	55	42	50	44	57
2	80	46	40	46	40	62	40	54	54	59	56	58
3	>100	65	44	58	45	58	47	58	43	61	50	61
4	>100	70	71	73	79	66	81	64	61	68	69	66
5	>100	75	58	73	57	75	57	69	56	67	68	80
6	>100	89	92	79	84	74	78	76	72	77	72	81
7	>100	87	76	88	73	78	72	78	69	77	70	78
8	>100	97	87	95	86	96	86	92	87	91	86	>98
9	>100	>98	97	95	96	94	91	88	87	93	82	85
10	>100	>98	>98	>98	>98	>98	>98	93	92	92	92	89
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 750.1 MHz; 5.00 dBm.
LO IN: 780.01 MHz; +13.00 dBm
IF OUT: 29.91 MHz; -1.8 dBm

- Notes: 1. All Harmonics are in (dBc) relative to IF OUTPUT.
2. + entry denotes harmonics are in (dBc) above IF OUTPUT.
3. RF Cal represent the Harmonics level of the RF input signal to the mixer.



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