

Frequency Mixer

SYM-EDR5091/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)		
		@LO (dBm)		
		+14	+17	+20
10.1	40.1	6.66	6.12	6.09
70.3	100.3	6.52	6.05	5.84
130.6	160.6	6.47	6.01	5.83
190.8	220.8	6.57	6.10	5.88
251.0	281.0	6.60	6.14	5.88
311.3	341.3	6.69	6.18	5.90
371.5	401.5	6.77	6.20	5.92
431.7	461.7	6.83	6.19	5.93
492.0	522.0	6.87	6.22	5.97
552.2	582.2	6.88	6.26	6.02
612.4	642.4	6.89	6.29	6.07
672.7	702.7	6.77	6.28	6.08
732.9	762.9	6.69	6.29	6.10
793.1	823.1	6.65	6.28	6.11
853.4	883.4	6.68	6.32	6.15
913.6	943.6	6.74	6.38	6.21
993.9	1023.9	6.88	6.48	6.27
1054.1	1084.1	6.97	6.54	6.32
1134.4	1164.4	7.05	6.62	6.38
1194.7	1224.7	7.10	6.61	6.39
1275.0	1305.0	7.20	6.62	6.43
1335.2	1365.2	7.42	6.73	6.51
1415.5	1445.5	7.70	6.95	6.64
1475.8	1505.8	7.92	7.16	6.82
1556.1	1586.1	8.23	7.39	7.00
1616.3	1646.3	8.53	7.56	7.13
1696.6	1726.6	9.11	8.01	7.42
1756.8	1786.8	9.39	8.27	7.63
1837.2	1867.2	9.84	8.71	7.97
1897.4	1927.4	10.20	8.90	8.12
1977.7	2007.7	10.37	8.95	8.17
2037.9	2067.9	10.33	9.06	8.32
2118.2	2148.2	10.28	9.18	8.58
2178.5	2208.5	10.44	9.29	8.67
2258.8	2288.8	10.48	9.49	8.90
2319.0	2349.0	10.37	9.60	9.09
2399.3	2429.3	10.40	9.70	9.33
2459.6	2489.6	10.47	9.79	9.46
2539.9	2569.9	10.60	9.94	9.61
2600.1	2630.1	10.91	10.20	9.85

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+14	+17	+20
10.1	40.1	26.39	32.93	27.92
70.3	100.3	27.93	29.09	30.20
130.6	160.6	29.09	31.47	30.88
190.8	220.8	26.68	29.71	31.59
251.0	281.0	28.12	29.45	25.21
311.3	341.3	26.53	30.50	24.39
371.5	401.5	25.64	24.60	24.96
431.7	461.7	26.20	22.97	25.68
492.0	522.0	25.31	22.83	26.20
552.2	582.2	22.99	23.23	27.27
612.4	642.4	21.77	23.94	26.21
672.7	702.7	20.06	23.65	28.78
732.9	762.9	21.27	25.08	32.07
793.1	823.1	23.00	25.79	28.90
853.4	883.4	22.80	26.11	29.85
913.6	943.6	23.56	29.31	44.40
993.9	1023.9	24.04	27.60	45.37
1054.1	1084.1	29.76	31.26	37.44
1134.4	1164.4	28.08	31.31	31.20
1194.7	1224.7	33.00	28.04	26.96
1275.0	1305.0	25.45	34.33	28.89
1335.2	1365.2	24.38	29.87	35.93
1415.5	1445.5	24.06	28.70	33.57
1475.8	1505.8	22.67	28.10	36.86
1556.1	1586.1	20.12	23.79	30.54
1616.3	1646.3	19.51	22.62	29.70
1696.6	1726.6	18.31	20.86	26.25
1756.8	1786.8	17.82	20.41	24.13
1837.2	1867.2	18.00	21.65	26.88
1897.4	1927.4	17.49	21.78	27.56
1977.7	2007.7	18.53	23.68	30.76
2037.9	2067.9	20.21	25.25	30.95
2118.2	2148.2	22.36	26.29	28.07
2178.5	2208.5	23.12	28.89	27.72
2258.8	2288.8	25.90	31.29	27.06
2319.0	2349.0	26.01	30.06	27.71
2399.3	2429.3	24.03	26.93	25.87
2459.6	2489.6	23.36	25.32	24.30
2539.9	2569.9	23.64	25.00	25.26
2600.1	2630.1	22.41	22.75	28.25

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+14dBm (dB)		
		@LO (dBm)		
		+14	+17	+20
10.1	40.1	0.96	0.56	0.41
70.3	100.3	1.03	0.56	0.39
130.6	160.6	0.99	0.58	0.37
190.8	220.8	1.03	0.56	0.40
251.0	281.0	1.06	0.59	0.42
311.3	341.3	0.92	0.54	0.41
371.5	401.5	0.93	0.57	0.42
431.7	461.7	0.96	0.65	0.43
492.0	522.0	0.95	0.66	0.43
552.2	582.2	1.00	0.66	0.43
612.4	642.4	1.10	0.66	0.40
672.7	702.7	1.10	0.59	0.36
732.9	762.9	1.29	0.64	0.42
793.1	823.1	1.33	0.65	0.44
853.4	883.4	1.33	0.60	0.42
913.6	943.6	1.23	0.54	0.38
993.9	1023.9	1.23	0.54	0.38
1054.1	1084.1	1.18	0.50	0.35
1134.4	1164.4	1.16	0.51	0.33
1194.7	1224.7	1.23	0.58	0.37
1275.0	1305.0	1.23	0.65	0.39
1335.2	1365.2	1.18	0.68	0.44
1415.5	1445.5	1.10	0.72	0.48
1475.8	1505.8	1.21	0.76	0.54
1556.1	1586.1	1.20	0.79	0.57
1616.3	1646.3	1.17	0.80	0.59
1696.6	1726.6	0.88	0.66	0.55
1756.8	1786.8	0.73	0.53	0.51
1837.2	1867.2	0.52	0.37	0.43
1897.4	1927.4	0.36	0.32	0.43
1977.7	2007.7	0.27	0.36	0.43
2037.9	2067.9	0.42	0.41	0.46
2118.2	2148.2	0.58	0.42	0.38
2178.5	2208.5	0.60	0.47	0.46
2258.8	2288.8	0.75	0.49	0.51
2319.0	2349.0	0.82	0.50	0.47
2399.3	2429.3	1.05	0.58	0.50
2459.6	2489.6	1.17	0.66	0.55
2539.9	2569.9	1.32	0.74	0.60
2600.1	2630.1	1.31	0.74	0.57

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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)
		+17			+17			+17
730.0	20.1	6.09	10.0	20.1	6.48	1000.0	500.1	7.12
711.5	38.6	6.10	30.2	40.3	6.32	979.8	520.3	7.14
693.1	57.0	6.13	50.4	60.5	6.38	959.6	540.5	7.10
674.6	75.5	6.22	70.6	80.7	6.35	939.4	560.7	7.09
656.2	93.9	6.18	90.8	100.9	6.33	919.2	580.9	7.08
637.7	112.4	6.14	111.0	121.1	6.36	899.0	601.1	7.02
619.2	130.9	6.08	131.2	141.3	6.28	878.8	621.3	7.01
600.8	149.3	6.13	151.4	161.5	6.29	858.6	641.5	7.01
582.3	167.8	6.12	171.6	181.7	6.36	838.4	661.7	6.97
563.8	186.3	6.14	191.8	201.9	6.38	818.2	681.9	6.93
545.4	204.7	6.09	212.0	222.1	6.31	798.0	702.1	6.95
526.9	223.2	6.08	232.2	242.3	6.33	777.8	722.3	6.90
508.5	241.6	6.10	252.4	262.5	6.38	757.6	742.5	6.86
490.0	260.1	6.15	272.7	282.8	6.32	737.3	762.8	6.91
471.5	278.6	6.16	292.9	303.0	6.36	717.1	783.0	6.89
453.1	297.0	6.11	313.1	323.2	6.38	696.9	803.2	6.91
434.6	315.5	6.11	333.3	343.4	6.33	676.7	823.4	6.87
416.2	333.9	6.13	353.5	363.6	6.28	656.5	843.6	6.87
397.7	352.4	6.15	373.7	383.8	6.40	636.3	863.8	6.88
379.2	370.9	6.08	393.9	404.0	6.33	616.1	884.0	6.84
360.8	389.3	6.09	434.3	444.4	6.32	575.7	924.4	6.84
342.3	407.8	6.04	454.5	464.6	6.24	555.5	944.6	6.86
323.8	426.3	6.09	494.9	505.0	6.27	515.1	985.0	6.83
305.4	444.7	6.11	515.1	525.2	6.22	494.9	1005.2	6.84
286.9	463.2	6.12	555.5	565.6	6.29	454.5	1045.6	6.87
268.5	481.6	6.07	575.7	585.8	6.25	434.3	1065.8	6.87
250.0	500.1	6.09	616.1	626.2	6.20	393.9	1106.2	6.87
231.5	518.6	6.11	636.3	646.4	6.16	373.7	1126.4	6.88
213.1	537.0	6.17	676.7	686.8	6.14	333.3	1166.8	6.81
194.6	555.5	6.13	696.9	707.0	6.07	313.1	1187.0	6.82
176.2	573.9	6.12	737.3	747.4	6.11	272.7	1227.4	6.83
157.7	592.4	6.13	757.6	767.7	6.09	252.4	1247.7	6.84
139.2	610.9	6.13	798.0	808.1	6.09	212.0	1288.1	6.94
120.8	629.3	6.14	818.2	828.3	6.10	191.8	1308.3	6.95
102.3	647.8	6.11	858.6	868.7	6.10	151.4	1348.7	7.00
83.8	666.3	6.15	878.8	888.9	6.09	131.2	1368.9	6.98
65.4	684.7	6.15	919.2	929.3	6.12	90.8	1409.3	7.04
46.9	703.2	6.20	939.4	949.5	6.10	70.6	1429.5	7.08
28.5	721.6	6.24	979.8	989.9	6.11	30.2	1469.9	7.18
10.0	740.1	6.31	1000.0	1010.1	6.07	10.0	1490.1	7.27

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LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+14	+17	+20	+14	+17	+20
10.1	31.02	35.75	40.74	28.35	30.32	32.30
70.3	44.25	50.06	54.46	36.56	40.57	44.61
130.6	48.66	51.88	50.32	37.32	41.65	44.30
190.8	50.48	48.41	46.41	37.59	40.81	41.48
251.0	48.61	45.13	42.96	37.62	39.54	38.99
311.3	45.98	42.35	41.38	37.78	38.49	37.48
371.5	43.59	40.26	39.95	37.50	37.42	36.09
431.7	41.24	38.81	39.19	37.72	36.61	34.87
492.0	39.21	37.54	38.13	38.06	36.09	34.22
552.2	37.79	37.44	38.07	38.04	35.78	33.45
612.4	36.80	37.27	37.86	38.19	35.05	33.03
672.7	35.79	36.32	37.23	38.04	34.44	32.57
732.9	34.73	35.71	36.81	37.74	33.82	31.90
793.1	34.12	35.35	36.65	37.09	33.23	31.62
853.4	34.08	35.16	36.45	36.58	32.73	31.12
913.6	34.00	35.06	36.43	36.71	32.95	31.26
993.9	33.52	34.68	36.12	36.68	33.68	31.97
1054.1	32.65	33.68	35.27	36.02	33.12	31.68
1134.4	30.89	32.59	34.60	35.11	33.38	31.90
1194.7	30.13	32.11	34.32	34.71	33.59	32.16
1275.0	30.01	31.90	33.99	33.75	33.74	32.76
1335.2	29.73	31.54	33.65	32.97	34.09	33.45
1415.5	29.28	31.08	33.06	32.54	34.62	34.76
1475.8	28.80	30.36	32.12	32.63	35.16	35.90
1556.1	27.95	29.19	30.92	32.49	35.68	37.43
1616.3	27.24	28.48	30.16	32.33	36.54	39.46
1696.6	26.59	27.89	29.44	32.32	37.79	42.81
1756.8	25.84	27.25	28.89	31.79	36.89	40.64
1837.2	24.98	26.62	28.44	29.70	32.62	34.37
1897.4	24.40	26.25	28.15	28.68	30.36	31.07
1977.7	23.80	26.03	28.39	27.53	28.13	28.39
2037.9	23.39	25.86	28.40	26.87	27.19	27.25
2118.2	22.87	25.62	28.42	26.13	26.09	26.05
2178.5	22.62	25.33	28.11	25.72	25.45	25.21
2258.8	22.38	25.00	27.52	24.89	24.39	23.98
2319.0	22.07	24.61	26.86	24.72	23.99	23.38
2399.3	21.88	24.27	25.95	24.62	23.71	23.01
2459.6	21.88	24.20	25.53	24.57	23.44	22.66
2539.9	21.62	23.70	24.56	24.71	23.62	22.51
2600.1	21.41	23.49	24.35	24.70	23.46	22.15

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
10.1	40.1	19.63	19.76	19.78
70.3	100.3	23.35	23.31	23.22
130.6	160.6	23.61	23.56	23.59
190.8	220.8	23.76	23.71	23.74
251.0	281.0	24.00	24.05	24.17
311.3	341.3	24.28	24.44	24.46
371.5	401.5	24.62	24.75	24.63
431.7	461.7	25.11	25.27	25.23
492.0	522.0	25.63	25.70	25.68
552.2	582.2	26.34	25.93	25.82
612.4	642.4	27.27	26.76	26.71
672.7	702.7	28.01	27.44	27.26
732.9	762.9	28.83	27.98	27.51
793.1	823.1	29.33	28.79	28.40
853.4	883.4	29.77	29.42	29.15
913.6	943.6	29.86	29.28	28.87
993.9	1023.9	30.50	29.59	29.06
1054.1	1084.1	31.08	29.70	29.05
1134.4	1164.4	31.73	29.85	29.01
1194.7	1224.7	32.47	30.35	29.39
1275.0	1305.0	32.90	30.16	29.08
1335.2	1365.2	33.08	29.76	28.67
1415.5	1445.5	30.79	28.66	27.86
1475.8	1505.8	29.48	27.76	27.19
1556.1	1586.1	27.57	26.34	26.15
1616.3	1646.3	26.57	25.76	25.49
1696.6	1726.6	25.64	25.26	25.39
1756.8	1786.8	25.09	25.00	25.49
1837.2	1867.2	25.64	26.38	27.49
1897.4	1927.4	26.36	27.64	28.69
1977.7	2007.7	26.80	28.06	29.17
2037.9	2067.9	26.60	27.94	28.98
2118.2	2148.2	26.52	27.19	27.54
2178.5	2208.5	25.93	26.66	26.86
2258.8	2288.8	25.60	26.16	26.34
2319.0	2349.0	25.79	26.31	26.49
2399.3	2429.3	25.60	26.28	26.62
2459.6	2489.6	25.84	26.78	27.20
2539.9	2569.9	26.26	27.29	27.88
2600.1	2630.1	26.06	27.36	27.92

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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)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
10.1	40.1	1.40	1.34	1.34	10.1	1.43	1.74	2.39	10.0	1.44	1.22	1.10
70.3	100.3	1.27	1.12	1.04	70.3	1.06	1.59	2.38	30.2	1.50	1.28	1.17
130.6	160.6	1.28	1.12	1.02	130.6	1.06	1.63	2.47	50.4	1.44	1.22	1.13
190.8	220.8	1.31	1.15	1.05	190.8	1.04	1.55	2.30	70.6	1.41	1.17	1.05
251.0	281.0	1.32	1.16	1.06	251.0	1.04	1.58	2.34	90.8	1.44	1.20	1.07
311.3	341.3	1.35	1.18	1.07	311.3	1.02	1.57	2.31	111.0	1.48	1.23	1.09
371.5	401.5	1.38	1.18	1.09	371.5	1.02	1.53	2.23	131.2	1.49	1.25	1.11
431.7	461.7	1.39	1.19	1.10	431.7	1.03	1.54	2.25	151.4	1.45	1.21	1.08
492.0	522.0	1.40	1.19	1.12	492.0	1.04	1.51	2.19	171.6	1.43	1.18	1.06
552.2	582.2	1.39	1.20	1.13	552.2	1.04	1.49	2.15	191.8	1.46	1.22	1.09
612.4	642.4	1.38	1.21	1.15	612.4	1.05	1.49	2.14	212.0	1.50	1.25	1.12
672.7	702.7	1.35	1.21	1.16	672.7	1.07	1.45	2.07	232.2	1.46	1.22	1.09
732.9	762.9	1.34	1.23	1.18	732.9	1.09	1.43	2.05	252.4	1.43	1.19	1.06
793.1	823.1	1.33	1.23	1.18	793.1	1.13	1.41	2.02	272.7	1.45	1.21	1.08
853.4	883.4	1.33	1.23	1.19	853.4	1.17	1.40	1.97	292.9	1.47	1.23	1.11
913.6	943.6	1.35	1.25	1.21	913.6	1.21	1.39	1.96	313.1	1.47	1.23	1.10
993.9	1023.9	1.40	1.28	1.24	993.9	1.25	1.38	1.91	333.3	1.47	1.23	1.10
1054.1	1084.1	1.42	1.31	1.27	1054.1	1.28	1.36	1.88	353.5	1.46	1.22	1.10
1134.4	1164.4	1.46	1.34	1.29	1134.4	1.31	1.32	1.83	373.7	1.44	1.21	1.10
1194.7	1224.7	1.50	1.37	1.31	1194.7	1.34	1.29	1.77	393.9	1.46	1.22	1.11
1275.0	1305.0	1.53	1.37	1.30	1275.0	1.39	1.26	1.72	434.3	1.47	1.24	1.12
1335.2	1365.2	1.58	1.39	1.31	1335.2	1.43	1.25	1.70	454.5	1.44	1.21	1.10
1415.5	1445.5	1.63	1.43	1.33	1415.5	1.44	1.22	1.65	494.9	1.48	1.25	1.16
1475.8	1505.8	1.66	1.45	1.35	1475.8	1.43	1.20	1.61	515.1	1.48	1.25	1.16
1556.1	1586.1	1.71	1.50	1.40	1556.1	1.43	1.16	1.58	555.5	1.47	1.25	1.15
1616.3	1646.3	1.76	1.55	1.44	1616.3	1.44	1.13	1.56	575.7	1.46	1.25	1.17
1696.6	1726.6	1.84	1.65	1.55	1696.6	1.43	1.08	1.52	616.1	1.49	1.27	1.18
1756.8	1786.8	1.87	1.71	1.62	1756.8	1.43	1.06	1.48	636.3	1.50	1.28	1.19
1837.2	1867.2	1.95	1.80	1.73	1837.2	1.46	1.09	1.46	676.7	1.47	1.25	1.17
1897.4	1927.4	2.02	1.85	1.77	1897.4	1.48	1.14	1.47	696.9	1.50	1.28	1.20
1977.7	2007.7	2.05	1.89	1.80	1977.7	1.51	1.22	1.48	737.3	1.48	1.28	1.21
2037.9	2067.9	2.04	1.89	1.82	2037.9	1.54	1.26	1.48	757.6	1.51	1.29	1.22
2118.2	2148.2	2.01	1.88	1.80	2118.2	1.56	1.31	1.51	798.0	1.50	1.30	1.24
2178.5	2208.5	2.00	1.87	1.78	2178.5	1.54	1.35	1.55	818.2	1.50	1.30	1.24
2258.8	2288.8	1.96	1.84	1.75	2258.8	1.51	1.40	1.58	858.6	1.52	1.33	1.28
2319.0	2349.0	1.91	1.81	1.73	2319.0	1.51	1.43	1.60	878.8	1.53	1.33	1.28
2399.3	2429.3	1.87	1.76	1.68	2399.3	1.48	1.49	1.67	919.2	1.52	1.33	1.28
2459.6	2489.6	1.82	1.70	1.60	2459.6	1.47	1.54	1.73	939.4	1.50	1.32	1.29
2539.9	2569.9	1.74	1.62	1.49	2539.9	1.47	1.58	1.76	979.8	1.54	1.36	1.31
2600.1	2630.1	1.71	1.59	1.45	2600.1	1.46	1.59	1.77	1000.0	1.53	1.35	1.30

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	9	23	16	25	24	30	39	54	46	37
1	-	22	+0	35	11	36	25	33	29	45	38	54
2	>100	57	46	54	48	54	47	57	55	57	61	64
3	>100	70	61	70	59	70	58	68	57	67	58	88
4	>100	93	78	82	88	81	90	84	80	92	91	93
5	>100	>93	92	>93	>93	>93	91	92	90	91	91	>93
6	>100	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93
7	>100	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93
8	>100	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93
9	>100	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93
10	>100	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 750.1 MHz; -1.00 dBm.
LO IN: 780.01 MHz; +17.00 dBm
IF OUT: 29.91 MHz; -7.28 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	20	32	28	34	35	44	57	68	49	59
1	-	22	+0	32	12	36	26	38	35	49	47	56
2	99	44	40	46	43	48	44	51	46	50	59	65
3	>100	54	51	52	46	55	43	50	50	47	48	56
4	>100	61	56	67	54	64	55	57	55	58	62	61
5	>100	66	55	66	55	64	53	60	53	56	53	62
6	>100	75	63	79	66	73	76	73	79	75	64	78
7	>100	88	70	92	73	82	69	80	67	74	66	69
8	>100	>103	82	93	80	81	76	84	76	87	73	84
9	>100	101	92	>103	84	86	84	87	82	83	81	78
10	>100	92	96	98	93	95	94	93	96	95	88	99
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 750.1 MHz; 9.00 dBm.
LO IN: 780.01 MHz; +17.00 dBm
IF OUT: 29.91 MHz; 2.74 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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