

Frequency Mixer

SYM-860

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=+1dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+4	+7	+10			+4	+7	+10			+4	+7	+10
130.1	160.1	10.69	10.12	9.88	130.1	160.1	14.32	13.77	15.85	130.1	160.1	0.01	0.00	0.00
170.3	200.3	8.96	8.55	8.36	170.3	200.3	11.99	12.90	14.09	170.3	200.3	0.10	0.05	0.00
210.6	240.6	7.90	7.56	7.39	210.6	240.6	10.96	12.40	13.88	210.6	240.6	0.25	0.10	0.05
250.8	280.8	7.23	6.93	6.77	250.8	280.8	10.38	12.08	13.49	250.8	280.8	0.51	0.30	0.18
291.1	321.1	6.74	6.47	6.31	291.1	321.1	10.43	11.78	13.34	291.1	321.1	0.67	0.43	0.29
331.3	361.3	6.46	6.18	6.04	331.3	361.3	10.49	11.91	13.44	331.3	361.3	0.81	0.56	0.40
371.5	401.5	6.22	5.96	5.82	371.5	401.5	10.91	12.01	12.94	371.5	401.5	0.92	0.66	0.48
411.8	441.8	6.08	5.80	5.65	411.8	441.8	11.58	12.35	14.15	411.8	441.8	1.05	0.72	0.58
452.0	482.0	5.97	5.72	5.58	452.0	482.0	12.33	13.35	14.10	452.0	482.0	1.10	0.81	0.61
492.3	522.3	5.89	5.62	5.47	492.3	522.3	11.43	12.57	12.42	492.3	522.3	1.14	0.87	0.67
532.5	562.5	5.87	5.58	5.40	532.5	562.5	11.38	12.22	12.77	532.5	562.5	1.27	0.98	0.80
572.8	602.8	5.86	5.59	5.41	572.8	602.8	11.40	12.26	13.20	572.8	602.8	1.36	1.02	0.86
613.0	643.0	5.83	5.57	5.40	613.0	643.0	10.79	10.97	11.77	613.0	643.0	1.41	1.10	0.88
653.2	683.2	5.80	5.52	5.37	653.2	683.2	10.75	11.16	11.64	653.2	683.2	1.43	1.15	0.93
693.5	723.5	5.78	5.49	5.33	693.5	723.5	11.87	12.28	12.48	693.5	723.5	1.56	1.25	1.04
733.7	763.7	5.82	5.52	5.34	733.7	763.7	12.51	13.67	12.98	733.7	763.7	1.64	1.35	1.11
774.0	804.0	5.89	5.58	5.40	774.0	804.0	14.74	14.32	14.20	774.0	804.0	1.63	1.34	1.10
814.2	844.2	5.96	5.67	5.49	814.2	844.2	17.18	15.53	14.78	814.2	844.2	1.69	1.38	1.15
854.4	884.4	6.03	5.74	5.56	854.4	884.4	17.03	15.61	14.70	854.4	884.4	1.75	1.44	1.18
894.7	924.7	6.07	5.78	5.60	894.7	924.7	18.40	14.01	12.92	894.7	924.7	1.75	1.38	1.12
934.9	964.9	6.14	5.83	5.66	934.9	964.9	17.28	12.87	12.35	934.9	964.9	1.81	1.42	1.15
975.2	1005.2	6.25	5.88	5.71	975.2	1005.2	17.86	15.07	14.82	975.2	1005.2	1.83	1.46	1.17
1015.4	1045.4	6.40	5.99	5.79	1015.4	1045.4	16.32	15.81	14.19	1015.4	1045.4	1.86	1.51	1.22
1055.6	1085.6	6.57	6.13	5.89	1055.6	1085.6	14.66	14.51	14.90	1055.6	1085.6	1.80	1.47	1.19
1095.9	1125.9	6.74	6.28	6.03	1095.9	1125.9	13.36	13.15	13.84	1095.9	1125.9	1.72	1.39	1.14
1136.1	1166.1	6.92	6.41	6.14	1136.1	1166.1	12.11	12.42	12.65	1136.1	1166.1	1.61	1.35	1.11
1176.4	1206.4	7.16	6.57	6.27	1176.4	1206.4	10.65	11.09	11.52	1176.4	1206.4	1.51	1.29	1.09
1216.6	1246.6	7.47	6.88	6.51	1216.6	1246.6	9.77	11.45	11.89	1216.6	1246.6	1.31	1.11	0.98
1256.8	1286.8	7.69	7.12	6.75	1256.8	1286.8	9.84	12.62	14.43	1256.8	1286.8	1.20	1.01	0.85
1297.1	1327.1	7.95	7.37	7.01	1297.1	1327.1	10.06	13.06	16.41	1297.1	1327.1	1.07	0.89	0.75
1337.3	1367.3	8.22	7.69	7.30	1337.3	1367.3	10.35	13.97	17.47	1337.3	1367.3	0.89	0.73	0.62
1397.7	1427.7	8.69	8.23	7.87	1397.7	1427.7	10.23	12.85	17.68	1397.7	1427.7	0.72	0.56	0.51
1437.9	1467.9	8.93	8.56	8.24	1437.9	1467.9	10.24	12.23	16.27	1437.9	1467.9	0.60	0.48	0.46
1498.3	1528.3	9.18	8.91	8.73	1498.3	1528.3	10.54	11.98	12.89	1498.3	1528.3	0.47	0.37	0.31
1538.5	1568.5	9.25	9.07	8.96	1538.5	1568.5	10.89	11.19	14.05	1538.5	1568.5	0.39	0.26	0.22
1598.9	1628.9	9.18	9.06	9.01	1598.9	1628.9	11.84	13.00	14.74	1598.9	1628.9	0.34	0.22	0.15
1639.1	1669.1	9.19	9.08	9.04	1639.1	1669.1	16.07	15.53	16.57	1639.1	1669.1	0.31	0.18	0.14
1699.5	1729.5	9.51	9.36	9.29	1699.5	1729.5	17.94	21.79	18.42	1699.5	1729.5	0.24	0.13	0.11
1739.7	1769.7	9.80	9.64	9.58	1739.7	1769.7	17.44	22.63	20.93	1739.7	1769.7	0.21	0.11	0.09
1800.1	1830.1	10.27	10.13	10.03	1800.1	1830.1	16.65	23.94	20.53	1800.1	1830.1	0.20	0.06	0.06

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=925.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=800.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1050.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+7			+7			+7
125.0	800.1	5.84	10.0	810.1	5.79	250.0	800.1	6.21
118.9	806.2	5.86	16.2	816.3	5.69	243.8	806.3	6.23
112.9	812.2	5.86	22.3	822.4	5.66	237.7	812.4	6.23
106.8	818.3	5.86	28.5	828.6	5.63	231.5	818.6	6.22
100.8	824.3	5.87	34.6	834.7	5.64	225.4	824.7	6.23
94.7	830.4	5.87	40.8	840.9	5.64	219.2	830.9	6.23
88.7	836.4	5.88	46.9	847.0	5.64	213.1	837.0	6.24
82.6	842.5	5.90	53.1	853.2	5.64	206.9	843.2	6.25
76.6	848.5	5.90	59.2	859.3	5.65	200.8	849.3	6.25
70.5	854.6	5.90	65.4	865.5	5.65	194.6	855.5	6.26
64.5	860.6	5.88	71.5	871.6	5.66	188.5	861.6	6.25
58.4	866.7	5.89	77.7	877.8	5.65	182.3	867.8	6.26
52.4	872.7	5.90	83.8	883.9	5.64	176.2	873.9	6.27
46.3	878.8	5.90	90.0	890.1	5.65	170.0	880.1	6.28
40.3	884.8	5.91	96.2	896.3	5.64	163.8	886.3	6.29
34.2	890.9	5.88	102.3	902.4	5.63	157.7	892.4	6.29
28.2	896.9	5.88	108.5	908.6	5.62	151.5	898.6	6.29
22.1	903.0	5.91	114.6	914.7	5.62	145.4	904.7	6.28
16.1	909.0	5.93	120.8	920.9	5.62	139.2	910.9	6.26
10.0	915.1	6.00	126.9	927.0	5.63	133.1	917.0	6.25
10.0	935.1	5.96	133.1	933.2	5.62	126.9	923.2	6.22
16.1	941.2	5.87	139.2	939.3	5.61	120.8	929.3	6.20
22.1	947.2	5.84	145.4	945.5	5.62	114.6	935.5	6.18
28.2	953.3	5.79	151.5	951.6	5.60	108.5	941.6	6.17
34.2	959.3	5.80	157.7	957.8	5.58	102.3	947.8	6.16
40.3	965.4	5.80	163.8	963.9	5.55	96.2	953.9	6.15
46.3	971.4	5.76	170.0	970.1	5.53	90.0	960.1	6.17
52.4	977.5	5.75	176.2	976.3	5.52	83.8	966.3	6.16
58.4	983.5	5.74	182.3	982.4	5.50	77.7	972.4	6.16
64.5	989.6	5.72	188.5	988.6	5.47	71.5	978.6	6.16
70.5	995.6	5.72	194.6	994.7	5.46	65.4	984.7	6.15
76.6	1001.7	5.71	200.8	1000.9	5.46	59.2	990.9	6.17
82.6	1007.7	5.72	206.9	1007.0	5.45	53.1	997.0	6.15
88.7	1013.8	5.70	213.1	1013.2	5.44	46.9	1003.2	6.16
94.7	1019.8	5.69	219.2	1019.3	5.43	40.8	1009.3	6.14
100.8	1025.9	5.68	225.4	1025.5	5.42	34.6	1015.5	6.15
106.8	1031.9	5.67	231.5	1031.6	5.43	28.5	1021.6	6.16
112.9	1038.0	5.68	237.7	1037.8	5.44	22.3	1027.8	6.17
118.9	1044.0	5.68	243.8	1043.9	5.43	16.2	1033.9	6.18
125.0	1050.1	5.67	250.0	1050.1	5.42	10.0	1040.1	6.22

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+4	+7	+10	+4	+7	+10
130.1	56.20	54.46	53.26	53.60	54.19	55.60
170.3	53.52	52.22	51.41	54.31	56.25	57.92
210.6	51.69	50.86	49.94	56.60	60.15	61.33
250.8	51.04	49.64	48.96	58.06	63.32	63.95
291.1	50.16	48.92	48.14	56.52	60.64	63.48
331.3	49.29	48.28	47.34	53.30	56.81	60.03
371.5	48.85	47.42	46.66	50.24	53.01	56.21
411.8	48.35	46.87	45.81	48.47	51.55	55.52
452.0	47.86	46.52	45.61	46.74	49.91	53.36
492.3	46.62	45.65	44.76	45.33	48.95	53.15
532.5	45.08	44.48	44.00	43.73	46.80	50.69
572.8	43.84	42.85	42.32	42.90	45.24	47.65
613.0	43.31	42.36	41.68	42.24	45.39	48.25
653.2	43.78	42.33	41.30	41.26	44.22	46.53
693.5	44.96	44.10	42.83	40.75	43.62	45.05
733.7	44.50	43.35	42.33	39.92	42.44	43.79
774.0	44.35	42.84	41.79	39.17	41.49	43.04
814.2	43.36	42.19	40.98	37.92	41.06	43.33
854.4	41.88	41.37	40.24	35.96	38.38	40.39
894.7	40.71	40.37	39.23	34.57	36.01	37.11
934.9	39.63	40.10	39.43	33.19	34.02	34.53
975.2	37.44	38.72	39.03	32.15	32.46	32.59
1015.4	36.35	37.46	37.87	31.72	31.74	31.48
1055.6	35.67	36.51	36.92	31.15	31.08	30.41
1095.9	35.24	35.89	36.26	30.62	30.44	29.42
1136.1	34.92	35.41	35.61	29.94	29.99	28.86
1176.4	35.01	35.26	35.20	29.49	30.09	29.25
1216.6	35.01	35.16	34.83	29.80	31.05	30.76
1256.8	34.87	35.10	34.66	31.07	32.55	32.25
1297.1	34.66	35.06	34.66	31.62	32.70	31.76
1337.3	34.38	34.93	34.70	31.40	31.76	30.35
1397.7	33.61	34.09	34.08	29.96	29.40	27.98
1437.9	33.09	33.39	33.37	28.37	27.62	26.41
1498.3	32.52	32.33	32.27	25.99	24.86	23.98
1538.5	32.47	31.96	31.70	24.56	23.26	22.39
1598.9	33.82	32.90	32.23	22.94	21.58	20.81
1639.1	34.90	33.67	32.57	22.34	20.88	19.99
1699.5	34.70	33.28	31.87	22.08	20.35	19.10
1739.7	34.38	33.04	31.51	21.91	20.01	18.63
1800.1	33.96	32.32	30.74	21.52	19.35	17.93

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+4	+7	+10
130.1	160.1	34.36	34.04	33.74
170.3	200.3	30.48	30.31	30.16
210.6	240.6	27.79	27.69	27.62
250.8	280.8	25.80	25.81	25.83
291.1	321.1	24.38	24.44	24.48
331.3	361.3	23.53	23.59	23.69
371.5	401.5	22.93	23.18	23.33
411.8	441.8	22.79	23.04	23.22
452.0	482.0	22.67	23.08	23.41
492.3	522.3	22.77	23.11	23.35
532.5	562.5	23.42	23.77	24.01
572.8	602.8	24.57	25.11	25.44
613.0	643.0	26.42	26.93	27.45
653.2	683.2	28.66	29.23	29.84
693.5	723.5	29.95	30.92	31.36
733.7	763.7	26.93	27.64	28.06
774.0	804.0	23.75	23.96	24.23
814.2	844.2	21.37	21.24	21.40
854.4	884.4	19.74	19.39	19.26
894.7	924.7	18.41	18.12	17.73
934.9	964.9	17.39	17.09	16.89
975.2	1005.2	16.57	16.35	16.15
1015.4	1045.4	15.84	15.79	15.66
1055.6	1085.6	15.32	15.37	15.37
1095.9	1125.9	14.77	14.91	14.96
1136.1	1166.1	14.51	14.72	14.84
1176.4	1206.4	14.42	14.79	15.04
1216.6	1246.6	14.57	15.08	15.53
1256.8	1286.8	14.92	15.53	16.00
1297.1	1327.1	15.30	15.89	16.43
1337.3	1367.3	15.63	16.23	16.72
1397.7	1427.7	15.76	16.42	16.86
1437.9	1467.9	15.55	16.18	16.69
1498.3	1528.3	15.12	15.46	15.85
1538.5	1568.5	14.84	15.05	15.18
1598.9	1628.9	14.60	14.44	14.26
1639.1	1669.1	14.10	13.90	13.43
1699.5	1729.5	13.19	12.75	12.36
1739.7	1769.7	12.54	12.03	11.66
1800.1	1830.1	11.61	11.03	10.63

Frequency Mixer

SYM-860

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)		
		@LO (dBm)		
		+4	+7	+10
130.1	160.1	12.26	11.24	10.62
170.3	200.3	7.76	7.22	6.91
210.6	240.6	5.49	5.17	5.00
250.8	280.8	4.23	4.03	3.91
291.1	321.1	3.41	3.29	3.21
331.3	361.3	2.88	2.80	2.75
371.5	401.5	2.49	2.44	2.41
411.8	441.8	2.19	2.17	2.17
452.0	482.0	1.98	1.97	1.97
492.3	522.3	1.79	1.80	1.81
532.5	562.5	1.63	1.65	1.68
572.8	602.8	1.51	1.54	1.58
613.0	643.0	1.40	1.44	1.49
653.2	683.2	1.32	1.39	1.46
693.5	723.5	1.27	1.37	1.45
733.7	763.7	1.24	1.35	1.44
774.0	804.0	1.26	1.37	1.46
814.2	844.2	1.28	1.38	1.47
854.4	884.4	1.30	1.40	1.48
894.7	924.7	1.36	1.45	1.53
934.9	964.9	1.42	1.51	1.59
975.2	1005.2	1.52	1.59	1.66
1015.4	1045.4	1.64	1.70	1.76
1055.6	1085.6	1.79	1.83	1.88
1095.9	1125.9	1.98	2.01	2.05
1136.1	1166.1	2.20	2.22	2.25
1176.4	1206.4	2.44	2.44	2.47
1216.6	1246.6	2.75	2.73	2.73
1256.8	1286.8	3.05	3.02	3.02
1297.1	1327.1	3.35	3.33	3.31
1337.3	1367.3	3.67	3.64	3.61
1397.7	1427.7	4.03	4.06	4.02
1437.9	1467.9	4.22	4.28	4.27
1498.3	1528.3	4.37	4.47	4.51
1538.5	1568.5	4.46	4.60	4.66
1598.9	1628.9	4.50	4.63	4.72
1639.1	1669.1	4.56	4.64	4.73
1699.5	1729.5	4.70	4.72	4.74
1739.7	1769.7	4.78	4.77	4.75
1800.1	1830.1	4.83	4.78	4.75

LO (MHz)	LO VSWR (:1)		
	@LO (dBm)		
	+4	+7	+10
130.1	3.63	3.74	4.44
170.3	2.83	3.23	4.08
210.6	2.44	3.02	3.93
250.8	2.27	2.93	3.91
291.1	2.11	2.81	3.77
331.3	2.07	2.83	3.82
371.5	2.00	2.77	3.76
411.8	1.98	2.77	3.76
452.0	1.97	2.77	3.76
492.3	1.95	2.73	3.71
532.5	1.97	2.76	3.74
572.8	1.96	2.74	3.70
613.0	1.99	2.77	3.73
653.2	2.00	2.77	3.72
693.5	2.01	2.76	3.69
733.7	2.04	2.79	3.71
774.0	2.05	2.78	3.69
814.2	2.08	2.81	3.72
854.4	2.10	2.81	3.70
894.7	2.10	2.79	3.65
934.9	2.13	2.79	3.65
975.2	2.15	2.79	3.62
1015.4	2.19	2.82	3.64
1055.6	2.23	2.85	3.66
1095.9	2.24	2.84	3.61
1136.1	2.26	2.86	3.63
1176.4	2.28	2.85	3.60
1216.6	2.30	2.85	3.58
1256.8	2.34	2.89	3.62
1297.1	2.32	2.85	3.56
1337.3	2.35	2.86	3.57
1397.7	2.38	2.86	3.54
1437.9	2.41	2.87	3.54
1498.3	2.38	2.80	3.44
1538.5	2.35	2.75	3.38
1598.9	2.30	2.66	3.26
1639.1	2.36	2.69	3.29
1699.5	2.49	2.75	3.28
1739.7	2.60	2.82	3.33
1800.1	2.71	2.86	3.31

IF (OUT) (MHz)	IF VSWR @LO=1050.1MHz (:1)		
	@LO (dBm)		
	+4	+7	+10
10.1	2.20	1.90	1.83
16.3	2.02	1.84	1.81
22.4	2.39	2.01	1.84
28.6	2.15	1.86	1.75
34.7	2.15	1.89	1.73
40.9	2.08	1.84	1.70
47.0	2.09	1.78	1.64
53.2	2.07	1.79	1.64
59.3	2.07	1.80	1.68
65.5	2.05	1.78	1.65
71.6	2.05	1.80	1.65
77.8	2.06	1.82	1.66
83.9	2.09	1.83	1.69
90.1	2.12	1.86	1.70
96.3	2.10	1.85	1.70
102.4	2.11	1.86	1.72
108.6	2.16	1.90	1.76
114.7	2.16	1.88	1.74
120.9	2.14	1.88	1.73
127.0	2.10	1.84	1.70
133.2	2.10	1.84	1.70
139.3	2.07	1.83	1.69
145.5	2.07	1.81	1.68
151.6	2.06	1.81	1.67
157.8	2.06	1.82	1.68
163.9	2.07	1.83	1.69
170.1	2.09	1.84	1.71
176.3	2.08	1.85	1.71
182.4	2.10	1.86	1.73
188.6	2.10	1.87	1.74
194.7	2.11	1.87	1.74
200.9	2.13	1.88	1.76
207.0	2.13	1.89	1.77
213.2	2.14	1.90	1.77
219.3	2.16	1.91	1.78
225.5	2.15	1.92	1.78
231.6	2.15	1.91	1.78
237.8	2.14	1.91	1.77
243.9	2.14	1.90	1.77
250.1	2.11	1.88	1.76

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	6	14	1	25	17	35	35	44	54	39
1	-	12	+0	28	11	46	31	26	47	46	66	54
2	>100	53	46	55	48	54	44	70	54	59	65	71
3	>100	75	65	64	69	62	66	80	62	61	80	>80
4	>100	>80	>80	>80	80	78	>80	>80	79	>80	>80	>80
5	>100	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
6	>100	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
7	>100	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
8	>100	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
9	>100	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
10	>100	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 920.1 MHz; -14.00 dBm.
 LO IN: 950.01 MHz; +7.00 dBm
 IF OUT: 29.91 MHz; -19.96 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	15	24	11	33	28	57	49	60	62	52
1	-	12	+0	30	12	46	36	33	50	54	66	75
2	90	41	40	48	44	60	38	55	48	55	62	66
3	>100	55	45	55	44	45	38	63	48	43	62	63
4	>100	59	76	57	54	57	54	56	53	74	66	68
5	>100	59	66	77	59	56	52	56	57	69	58	60
6	>100	83	71	80	86	81	>90	66	>90	66	68	77
7	>100	>90	>90	81	82	82	73	77	70	71	65	82
8	>100	>90	>90	>90	89	85	>90	82	83	84	83	76
9	>100	>90	>90	>90	>90	84	88	89	77	78	75	80
10	>100	>90	>90	>90	>90	>90	89	>90	>90	>90	>90	83
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 920.1 MHz; -4.00 dBm.
 LO IN: 950.01 MHz; +7.00 dBm
 IF OUT: 29.91 MHz; -10.11 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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