

Frequency Mixer

SYM-25DMHW+

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=+9dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+10	+13	+16			+10	+13	+16			+10	+13	+16
10.1	40.1	6.50	5.97	5.74	10.1	40.1	31.69	34.12	29.65	10.1	40.1	0.60	0.27	0.12
90.3	120.3	6.82	6.27	5.95	90.3	120.3	24.21	25.72	26.04	90.3	120.3	0.57	0.26	0.12
170.6	200.6	6.81	6.32	6.00	170.6	200.6	22.96	25.04	26.75	170.6	200.6	0.55	0.23	0.12
250.8	280.8	6.87	6.36	6.02	250.8	280.8	22.60	24.37	23.37	250.8	280.8	0.58	0.25	0.13
331.0	361.0	6.90	6.31	6.00	331.0	361.0	22.87	23.33	21.60	331.0	361.0	0.58	0.26	0.13
411.3	441.3	6.96	6.33	6.00	411.3	441.3	22.25	21.58	21.56	411.3	441.3	0.54	0.26	0.14
491.5	521.5	6.95	6.32	6.00	491.5	521.5	22.14	20.55	22.47	491.5	521.5	0.53	0.27	0.13
571.8	601.8	6.93	6.30	6.03	571.8	601.8	19.75	20.58	24.02	571.8	601.8	0.58	0.25	0.11
652.0	682.0	6.92	6.33	6.06	652.0	682.0	19.41	21.26	26.15	652.0	682.0	0.60	0.24	0.10
732.2	762.2	6.91	6.37	6.10	732.2	762.2	19.21	21.47	27.49	732.2	762.2	0.58	0.22	0.11
812.5	842.5	6.91	6.38	6.11	812.5	842.5	19.22	21.95	27.68	812.5	842.5	0.58	0.20	0.11
892.7	922.7	6.95	6.43	6.16	892.7	922.7	19.00	22.75	27.59	892.7	922.7	0.57	0.22	0.11
972.9	1002.9	7.02	6.45	6.17	972.9	1002.9	18.89	23.56	32.34	972.9	1002.9	0.57	0.20	0.13
1053.2	1083.2	7.12	6.51	6.23	1053.2	1083.2	20.19	26.99	27.47	1053.2	1083.2	0.49	0.16	0.10
1133.4	1163.4	7.21	6.59	6.26	1133.4	1163.4	20.40	27.08	26.68	1133.4	1163.4	0.46	0.17	0.11
1233.7	1263.7	7.32	6.64	6.32	1233.7	1263.7	21.29	29.57	28.16	1233.7	1263.7	0.47	0.19	0.12
1313.9	1343.9	7.39	6.70	6.37	1313.9	1343.9	20.27	28.97	27.78	1313.9	1343.9	0.50	0.20	0.12
1414.2	1444.2	7.53	6.82	6.46	1414.2	1444.2	20.04	27.18	29.38	1414.2	1444.2	0.51	0.21	0.12
1494.5	1524.5	7.67	6.96	6.58	1494.5	1524.5	19.41	23.55	30.66	1494.5	1524.5	0.60	0.22	0.13
1594.8	1624.8	7.89	7.18	6.79	1594.8	1624.8	19.09	23.71	29.44	1594.8	1624.8	0.64	0.26	0.14
1675.0	1705.0	8.10	7.37	6.97	1675.0	1705.0	17.76	22.05	28.03	1675.0	1705.0	0.64	0.31	0.16
1775.3	1805.3	8.41	7.60	7.14	1775.3	1805.3	16.81	21.99	28.82	1775.3	1805.3	0.57	0.32	0.21
1855.5	1885.5	8.68	7.82	7.28	1855.5	1885.5	15.96	19.93	27.94	1855.5	1885.5	0.52	0.29	0.21
1955.8	1985.8	8.95	8.02	7.38	1955.8	1985.8	15.87	20.11	25.50	1955.8	1985.8	0.44	0.29	0.21
2036.1	2066.1	9.08	8.10	7.43	2036.1	2066.1	16.15	21.16	23.53	2036.1	2066.1	0.46	0.30	0.26
2136.4	2166.4	9.08	8.10	7.45	2136.4	2166.4	17.40	20.87	20.36	2136.4	2166.4	0.45	0.35	0.32
2216.6	2246.6	9.11	8.13	7.48	2216.6	2246.6	17.79	20.32	19.71	2216.6	2246.6	0.48	0.37	0.33
2316.9	2346.9	8.97	8.13	7.51	2316.9	2346.9	17.84	18.68	18.43	2316.9	2346.9	0.56	0.40	0.36
2397.1	2427.1	8.83	8.02	7.47	2397.1	2427.1	17.61	17.65	17.77	2397.1	2427.1	0.66	0.46	0.39
2497.4	2527.4	8.77	7.95	7.43	2497.4	2527.4	17.03	17.31	17.70	2497.4	2527.4	0.81	0.58	0.48
2577.7	2607.7	8.77	7.97	7.46	2577.7	2607.7	16.88	17.07	17.51	2577.7	2607.7	0.83	0.58	0.49
2678.0	2708.0	8.80	8.06	7.57	2678.0	2708.0	16.28	16.70	17.15	2678.0	2708.0	0.87	0.59	0.47
2758.2	2788.2	8.87	8.18	7.68	2758.2	2788.2	16.23	16.64	17.18	2758.2	2788.2	0.96	0.58	0.43
2858.5	2888.5	9.09	8.35	7.85	2858.5	2888.5	16.10	16.61	17.49	2858.5	2888.5	1.00	0.60	0.43
2938.7	2968.7	9.34	8.57	8.05	2938.7	2968.7	16.02	16.56	17.56	2938.7	2968.7	1.05	0.55	0.41
3039.0	3069.0	9.74	8.87	8.29	3039.0	3069.0	15.97	16.48	17.59	3039.0	3069.0	1.14	0.57	0.39
3119.3	3149.3	10.07	9.14	8.52	3119.3	3149.3	16.23	16.67	17.46	3119.3	3149.3	1.19	0.57	0.38
3219.6	3249.6	10.69	9.56	8.85	3219.6	3249.6	16.56	16.97	17.81	3219.6	3249.6	1.20	0.59	0.36
3299.8	3329.8	11.21	9.89	9.12	3299.8	3329.8	17.07	17.60	18.32	3299.8	3329.8	1.17	0.60	0.33
3400.1	3430.1	12.00	10.41	9.54	3400.1	3430.1	17.53	18.02	18.52	3400.1	3430.1	1.03	0.62	0.34



Frequency Mixer

SYM-25DMHW+

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1250.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=40.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2500.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+13			+13			+13
1000.0	250.1	6.90	10.0	50.1	6.09	1000.0	1500.1	8.30
979.8	270.3	6.96	30.2	70.3	6.18	979.8	1520.3	8.26
959.6	290.5	7.00	50.4	90.5	6.23	959.6	1540.5	8.25
939.4	310.7	7.02	70.6	110.7	6.20	939.4	1560.7	8.23
919.2	330.9	6.96	90.8	130.9	6.15	919.2	1580.9	8.23
899.0	351.1	6.95	111.0	151.1	6.20	899.0	1601.1	8.18
878.8	371.3	6.97	131.2	171.3	6.22	878.8	1621.3	8.15
858.6	391.5	6.93	151.4	191.5	6.20	858.6	1641.5	8.15
838.4	411.7	6.97	171.6	211.7	6.22	838.4	1661.7	8.08
818.2	431.9	6.92	191.8	231.9	6.17	818.2	1681.9	8.07
798.0	452.1	6.88	212.0	252.1	6.16	798.0	1702.1	8.04
777.8	472.3	6.95	232.2	272.3	6.22	777.8	1722.3	8.01
757.6	492.5	6.89	252.4	292.5	6.19	757.6	1742.5	8.02
737.3	512.8	6.86	272.7	312.8	6.18	737.3	1762.8	7.98
717.1	533.0	6.86	292.9	333.0	6.12	717.1	1783.0	7.96
696.9	553.2	6.82	313.1	353.2	6.14	696.9	1803.2	7.92
676.7	573.4	6.83	333.3	373.4	6.15	676.7	1823.4	7.94
656.5	593.6	6.83	353.5	393.6	6.10	656.5	1843.6	7.94
636.3	613.8	6.82	373.7	413.8	6.11	636.3	1863.8	7.92
616.1	634.0	6.81	393.9	434.0	6.03	616.1	1884.0	7.94
575.7	674.4	6.81	434.3	474.4	6.07	575.7	1924.4	7.93
555.5	694.6	6.79	454.5	494.6	6.02	555.5	1944.6	7.92
515.1	735.0	6.78	494.9	535.0	5.98	515.1	1985.0	7.90
494.9	755.2	6.77	515.1	555.2	5.99	494.9	2005.2	7.83
454.5	795.6	6.78	555.5	595.6	5.98	454.5	2045.6	7.87
434.3	815.8	6.78	575.7	615.8	5.95	434.3	2065.8	7.86
393.9	856.2	6.78	616.1	656.2	5.96	393.9	2106.2	7.78
373.7	876.4	6.79	636.3	676.4	5.94	373.7	2126.4	7.79
333.3	916.8	6.75	676.7	716.8	5.93	333.3	2166.8	7.80
313.1	937.0	6.76	696.9	737.0	5.92	313.1	2187.0	7.81
272.7	977.4	6.74	737.3	777.4	5.97	272.7	2227.4	7.84
252.4	997.7	6.71	757.6	797.7	5.97	252.4	2247.7	7.87
212.0	1038.1	6.66	798.0	838.1	5.97	212.0	2288.1	7.88
191.8	1058.3	6.69	818.2	858.3	5.98	191.8	2308.3	7.85
151.4	1098.7	6.65	858.6	898.7	5.98	151.4	2348.7	7.92
131.2	1118.9	6.67	878.8	918.9	5.99	131.2	2368.9	7.90
90.8	1159.3	6.68	919.2	959.3	6.02	90.8	2409.3	7.87
70.6	1179.5	6.65	939.4	979.5	6.01	70.6	2429.5	7.92
30.2	1219.9	6.61	979.8	1019.9	6.02	30.2	2469.9	7.91
10.0	1240.1	6.57	1000.0	1040.1	6.03	10.0	2490.1	7.83



Frequency Mixer

SYM-25DMHW+

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+10	+13	+16	+10	+13	+16
10.1	44.95	48.93	52.71	34.91	38.58	42.39
90.3	50.87	57.71	62.14	33.75	37.60	41.44
170.6	51.69	60.75	57.09	34.15	38.15	41.68
250.8	52.87	59.68	52.69	34.64	38.64	41.77
331.0	52.90	57.86	50.79	35.24	39.27	41.61
411.3	54.25	56.21	49.75	36.24	40.04	41.63
491.5	55.95	55.59	49.06	37.45	40.61	41.22
571.8	54.11	58.73	49.62	38.74	40.84	40.69
652.0	52.34	60.08	48.93	40.07	40.75	40.02
732.2	50.75	56.66	47.73	40.38	39.68	38.74
812.5	47.63	53.48	46.99	40.19	38.93	38.38
892.7	46.28	52.41	46.71	39.90	38.60	38.13
972.9	44.77	51.76	46.88	39.10	37.87	37.48
1053.2	42.95	49.74	46.89	38.89	37.44	37.15
1133.4	41.80	47.73	45.79	38.50	36.98	36.90
1233.7	40.86	46.06	44.15	38.59	37.47	37.41
1313.9	40.70	45.51	43.55	39.25	38.68	38.91
1414.2	41.48	46.64	42.48	40.19	40.20	40.98
1494.5	42.25	48.45	42.34	40.81	41.61	43.41
1594.8	44.21	53.10	42.31	40.17	41.42	44.70
1675.0	45.39	54.56	42.47	38.91	40.09	43.21
1775.3	45.60	51.27	43.33	36.95	37.47	39.51
1855.5	44.64	48.98	44.31	35.25	35.33	36.49
1955.8	43.40	48.12	46.71	33.18	32.92	33.47
2036.1	42.73	48.43	49.71	31.86	31.48	31.75
2136.4	42.52	51.51	54.26	30.09	29.57	29.72
2216.6	42.54	53.56	51.45	29.06	28.54	28.52
2316.9	42.12	50.51	48.42	27.70	27.19	27.09
2397.1	41.67	47.37	45.48	26.57	26.06	26.11
2497.4	40.46	43.36	42.38	25.56	25.14	25.11
2577.7	39.00	40.47	39.29	24.70	24.20	23.84
2678.0	37.10	38.15	36.99	23.93	23.66	23.22
2758.2	35.75	36.64	35.78	23.40	23.17	22.70
2858.5	34.10	34.84	34.45	22.68	22.62	22.23
2938.7	33.03	33.66	33.41	22.20	22.19	21.72
3039.0	31.95	32.44	32.17	21.97	22.00	21.57
3119.3	31.04	31.66	31.46	21.70	21.93	21.59
3219.6	29.72	30.83	31.03	21.53	22.09	21.84
3299.8	28.88	30.06	30.51	21.51	22.07	21.87
3400.1	28.15	29.38	30.18	21.63	22.32	22.18

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+10	+13	+16
10.1	40.1	26.18	25.55	25.48
90.3	120.3	25.73	25.51	25.42
170.6	200.6	25.96	25.90	25.90
250.8	280.8	26.50	26.47	26.50
331.0	361.0	27.09	27.23	27.16
411.3	441.3	28.02	28.16	27.89
491.5	521.5	28.98	28.96	28.85
571.8	601.8	30.00	29.68	29.51
652.0	682.0	31.30	30.70	30.42
732.2	762.2	32.76	32.11	31.48
812.5	842.5	34.10	33.70	32.99
892.7	922.7	35.69	35.34	34.70
972.9	1002.9	36.76	36.31	35.71
1053.2	1083.2	37.82	37.41	36.82
1133.4	1163.4	38.62	37.85	37.40
1233.7	1263.7	40.18	39.10	38.53
1313.9	1343.9	41.62	39.81	38.77
1414.2	1444.2	42.23	39.60	38.47
1494.5	1524.5	41.83	39.01	37.91
1594.8	1624.8	42.12	38.72	37.64
1675.0	1705.0	44.83	40.85	38.89
1775.3	1805.3	49.37	43.83	41.12
1855.5	1885.5	51.90	45.18	42.18
1955.8	1985.8	46.45	44.16	41.98
2036.1	2066.1	42.99	42.86	40.89
2136.4	2166.4	40.58	41.91	40.93
2216.6	2246.6	39.42	40.67	40.44
2316.9	2346.9	38.69	39.13	39.23
2397.1	2427.1	38.13	38.18	38.44
2497.4	2527.4	36.27	36.21	36.31
2577.7	2607.7	34.62	34.44	34.91
2678.0	2708.0	32.63	32.43	32.91
2758.2	2788.2	31.03	30.85	31.25
2858.5	2888.5	29.72	29.71	29.91
2938.7	2968.7	28.68	28.95	29.21
3039.0	3069.0	26.80	27.49	27.70
3119.3	3149.3	25.36	26.08	26.46
3219.6	3249.6	23.95	24.51	25.02
3299.8	3329.8	23.16	23.67	24.23
3400.1	3430.1	22.48	22.91	23.50



Frequency Mixer

SYM-25DMHW+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)		
		@LO (dBm)		
		+10	+13	+16
10.1	40.1	1.26	1.10	1.03
90.3	120.3	1.32	1.15	1.07
170.6	200.6	1.35	1.21	1.13
250.8	280.8	1.41	1.26	1.19
331.0	361.0	1.47	1.31	1.25
411.3	441.3	1.57	1.40	1.32
491.5	521.5	1.66	1.48	1.40
571.8	601.8	1.71	1.53	1.45
652.0	682.0	1.80	1.61	1.52
732.2	762.2	1.88	1.68	1.58
812.5	842.5	1.95	1.73	1.64
892.7	922.7	2.04	1.81	1.70
972.9	1002.9	2.11	1.86	1.74
1053.2	1083.2	2.19	1.92	1.79
1133.4	1163.4	2.27	1.99	1.83
1233.7	1263.7	2.31	2.01	1.84
1313.9	1343.9	2.31	2.00	1.83
1414.2	1444.2	2.30	1.99	1.82
1494.5	1524.5	2.31	2.03	1.87
1594.8	1624.8	2.34	2.08	1.95
1675.0	1705.0	2.32	2.11	2.00
1775.3	1805.3	2.30	2.14	2.04
1855.5	1885.5	2.30	2.15	2.06
1955.8	1985.8	2.29	2.15	2.05
2036.1	2066.1	2.20	2.06	1.96
2136.4	2166.4	2.03	1.88	1.78
2216.6	2246.6	1.93	1.78	1.67
2316.9	2346.9	1.79	1.66	1.57
2397.1	2427.1	1.66	1.54	1.45
2497.4	2527.4	1.53	1.41	1.32
2577.7	2607.7	1.48	1.37	1.29
2678.0	2708.0	1.45	1.37	1.31
2758.2	2788.2	1.43	1.36	1.31
2858.5	2888.5	1.43	1.38	1.36
2938.7	2968.7	1.47	1.44	1.43
3039.0	3069.0	1.51	1.48	1.49
3119.3	3149.3	1.51	1.49	1.50
3219.6	3249.6	1.56	1.55	1.58
3299.8	3329.8	1.64	1.64	1.68
3400.1	3430.1	1.72	1.73	1.77

LO (MHz)	LO VSWR (:1)		
	@LO (dBm)		
	+10	+13	+16
10.1	1.05	1.49	2.20
90.3	1.07	1.48	2.12
170.6	1.12	1.48	2.12
250.8	1.17	1.47	2.12
331.0	1.24	1.46	2.08
411.3	1.28	1.40	1.99
491.5	1.33	1.35	1.89
571.8	1.40	1.32	1.82
652.0	1.47	1.30	1.75
732.2	1.56	1.27	1.67
812.5	1.66	1.25	1.60
892.7	1.73	1.24	1.52
972.9	1.78	1.21	1.45
1053.2	1.82	1.19	1.38
1133.4	1.83	1.16	1.32
1233.7	1.83	1.13	1.29
1313.9	1.81	1.13	1.29
1414.2	1.76	1.15	1.35
1494.5	1.70	1.19	1.41
1594.8	1.63	1.24	1.53
1675.0	1.56	1.29	1.62
1775.3	1.46	1.36	1.74
1855.5	1.40	1.41	1.84
1955.8	1.33	1.48	1.94
2036.1	1.30	1.55	2.04
2136.4	1.27	1.62	2.14
2216.6	1.27	1.69	2.23
2316.9	1.29	1.76	2.30
2397.1	1.33	1.81	2.34
2497.4	1.40	1.87	2.38
2577.7	1.45	1.89	2.39
2678.0	1.54	1.96	2.42
2758.2	1.62	2.00	2.43
2858.5	1.74	2.08	2.47
2938.7	1.84	2.14	2.50
3039.0	1.97	2.22	2.53
3119.3	2.08	2.30	2.58
3219.6	2.20	2.37	2.62
3299.8	2.29	2.44	2.67
3400.1	2.40	2.52	2.71

IF (OUT) (MHz)	IF VSWR @LO=2500.1MHz (:1)		
	@LO (dBm)		
	+10	+13	+16
10.0	1.48	1.25	1.08
30.2	1.38	1.17	1.03
50.4	1.43	1.20	1.08
70.6	1.43	1.22	1.09
90.8	1.43	1.21	1.07
111.0	1.45	1.22	1.08
131.2	1.43	1.21	1.07
151.4	1.41	1.20	1.07
171.6	1.40	1.19	1.06
191.8	1.39	1.18	1.06
212.0	1.42	1.20	1.06
232.2	1.43	1.21	1.08
252.4	1.45	1.23	1.09
272.7	1.44	1.23	1.10
292.9	1.43	1.22	1.09
313.1	1.43	1.21	1.07
333.3	1.44	1.21	1.08
353.5	1.44	1.22	1.08
373.7	1.44	1.23	1.09
393.9	1.44	1.23	1.09
434.3	1.44	1.22	1.08
454.5	1.43	1.21	1.08
494.9	1.46	1.24	1.10
515.1	1.46	1.24	1.10
555.5	1.43	1.22	1.09
575.7	1.44	1.23	1.10
616.1	1.48	1.27	1.14
636.3	1.47	1.26	1.13
676.7	1.46	1.25	1.13
696.9	1.48	1.27	1.16
737.3	1.53	1.32	1.19
757.6	1.52	1.31	1.18
798.0	1.51	1.31	1.20
818.2	1.53	1.34	1.23
858.6	1.57	1.37	1.25
878.8	1.57	1.37	1.25
919.2	1.58	1.39	1.28
939.4	1.60	1.41	1.31
979.8	1.64	1.44	1.33
1000.0	1.64	1.45	1.34

Frequency Mixer

SYM-25DMHW+

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	24	20	29	30	34	44	45	54	59	62
1	-	32	+0	32	15	50	28	52	50	47	45	58
2	77	49	38	56	45	49	52	59	56	62	59	62
3	>100	65	55	55	55	58	50	71	56	63	56	60
4	>100	79	69	62	66	61	67	62	69	65	71	72
5	>100	81	75	73	63	72	62	73	63	90	67	85
6	>100	86	93	85	88	81	82	78	80	81	90	90
7	>100	89	93	93	92	88	93	86	96	88	87	91
8	>100	>97	>97	>97	>97	>97	96	>97	>97	>97	89	92
9	>100	>97	>97	>97	>97	>97	>97	>97	>97	96	>97	>97
10	>100	>97	>97	>97	>97	>97	>97	>97	>97	>97	>97	>97
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1270.1 MHz; 4.00 dBm.
 LO IN: 1300.01 MHz; +13.00 dBm
 IF OUT: 29.91 MHz; -3.02 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	12	11	18	19	22	32	31	41	37	46
1	-	33	+0	34	15	44	27	47	51	42	42	53
2	89	57	48	59	53	55	62	62	61	66	63	66
3	>100	77	75	77	68	75	65	85	69	>87	70	86
4	>100	>87	>87	>87	>87	81	>87	>87	>87	>87	>87	>87
5	>100	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
6	>100	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
7	>100	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
8	>100	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
9	>100	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
10	>100	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1270.1 MHz; -6.00 dBm.
 LO IN: 1300.01 MHz; +13.00 dBm
 IF OUT: 29.91 MHz; -13.06 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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