

# Frequency Mixer

# SYM-12+

## 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
5.0	35.0	6.97	6.57	6.35	130.1	160.1	22.85	17.32	19.74	10.1	40.1	0.42	0.26	0.17
10.1	40.1	6.72	6.37	6.17	167.9	197.9	24.28	18.77	18.43	49.9	79.9	0.43	0.24	0.12
50.0	80.0	6.84	6.49	6.29	205.8	235.8	25.30	19.06	20.55	89.6	119.6	0.34	0.21	0.11
102.5	72.5	6.90	6.54	6.40	243.6	273.6	15.24	17.20	23.40	129.4	159.4	0.33	0.18	0.13
130.1	160.1	7.28	6.99	6.83	281.4	311.4	16.10	18.05	24.27	169.2	199.2	0.36	0.20	0.13
167.9	197.9	7.40	7.01	6.86	319.3	349.3	16.98	22.43	19.28	208.9	238.9	0.32	0.21	0.14
205.8	235.8	7.39	7.02	6.86	357.1	387.1	14.53	22.49	23.38	248.7	278.7	0.34	0.22	0.16
243.6	273.6	7.40	7.08	6.93	394.9	424.9	16.36	17.23	19.29	288.5	318.5	0.35	0.21	0.16
319.3	349.3	7.44	7.13	6.94	432.8	462.8	15.09	17.17	18.22	328.2	358.2	0.40	0.26	0.19
357.1	387.1	7.42	7.15	6.96	470.6	500.6	15.74	15.00	17.19	368.0	398.0	0.38	0.29	0.18
394.9	424.9	7.57	7.18	6.98	508.4	538.4	16.01	16.20	16.06	407.7	437.7	0.39	0.30	0.22
432.8	462.8	7.55	7.20	6.98	546.2	576.2	16.58	16.76	16.22	447.5	477.5	0.40	0.28	0.21
470.6	500.6	7.63	7.22	7.01	584.1	614.1	14.94	17.51	16.47	487.3	517.3	0.41	0.28	0.22
508.4	538.4	7.68	7.25	7.02	621.9	651.9	16.57	17.11	18.42	527.0	557.0	0.51	0.37	0.25
546.2	576.2	7.68	7.27	7.05	659.7	689.7	16.09	16.95	16.70	566.8	596.8	0.55	0.39	0.32
584.1	614.1	7.67	7.28	7.04	697.6	727.6	14.27	18.73	14.97	606.6	636.6	0.63	0.52	0.36
621.9	651.9	7.87	7.34	7.09	735.4	765.4	12.50	16.71	13.85	646.3	676.3	0.66	0.51	0.41
659.7	689.7	7.84	7.40	7.12	773.2	803.2	12.49	23.35	13.51	686.1	716.1	0.72	0.58	0.49
697.6	727.6	7.96	7.44	7.14	811.1	841.1	10.83	12.84	12.15	725.9	755.9	0.73	0.62	0.52
735.4	765.4	8.10	7.47	7.15	848.9	878.9	10.30	10.90	11.48	765.6	795.6	0.78	0.72	0.62
773.2	803.2	8.04	7.49	7.15	886.7	916.7	9.05	10.74	11.24	805.4	835.4	0.88	0.78	0.66
848.9	878.9	8.16	7.47	7.10	924.6	954.6	8.20	9.58	10.31	845.2	875.2	0.93	0.78	0.66
886.7	916.7	7.98	7.42	7.07	962.4	992.4	7.45	8.74	9.49	884.9	914.9	0.90	0.82	0.65
924.6	954.6	8.02	7.42	7.07	1000.2	1030.2	7.07	8.42	9.28	924.7	954.7	0.89	0.76	0.61
962.4	992.4	8.07	7.43	7.08	1038.1	1068.1	7.22	8.41	9.40	964.5	994.5	0.90	0.73	0.56
1000.2	1030.2	7.90	7.42	7.13	1075.9	1105.9	7.20	8.17	9.64	1004.2	1034.2	0.92	0.70	0.53
1038.1	1068.1	7.90	7.43	7.17	1113.7	1143.7	7.64	8.82	9.66	1044.0	1074.0	0.90	0.65	0.50
1075.9	1105.9	7.88	7.42	7.18	1151.5	1181.5	7.78	9.44	10.09	1103.6	1133.6	0.84	0.58	0.45
1151.5	1181.5	7.86	7.50	7.29	1189.4	1219.4	8.13	9.31	10.73	1143.4	1173.4	0.72	0.55	0.40
1189.4	1219.4	7.95	7.57	7.36	1227.2	1257.2	9.29	9.92	10.79	1203.0	1233.0	0.65	0.45	0.38
1227.2	1257.2	7.99	7.69	7.49	1265.0	1295.0	9.41	10.27	11.89	1242.8	1272.8	0.58	0.36	0.28
1265.0	1295.0	8.11	7.82	7.64	1321.8	1351.8	9.30	10.59	11.99	1302.5	1332.5	0.47	0.30	0.25
1321.8	1351.8	8.35	8.09	7.93	1359.6	1389.6	9.58	10.82	12.07	1342.2	1372.2	0.39	0.27	0.21
1359.6	1389.6	8.56	8.28	8.15	1416.4	1446.4	10.43	12.27	12.60	1401.9	1431.9	0.29	0.23	0.17
1416.4	1446.4	8.81	8.57	8.44	1454.2	1484.2	10.24	12.22	13.39	1441.6	1471.6	0.28	0.21	0.18
1454.2	1484.2	8.99	8.78	8.66	1510.9	1540.9	10.60	12.25	14.62	1501.3	1531.3	0.25	0.18	0.15
1548.8	1578.8	9.51	9.34	9.29	1548.8	1578.8	11.73	11.99	14.20	1541.0	1571.0	0.20	0.16	0.11
1605.5	1635.5	9.76	9.60	9.56	1605.5	1635.5	12.17	13.65	16.21	1600.7	1630.7	0.15	0.13	0.08
1643.4	1673.4	9.89	9.72	9.66	1643.4	1673.4	14.26	14.59	15.05	1640.5	1670.5	0.22	0.10	0.11
1700.1	1730.1	10.13	9.89	9.81	1700.1	1730.1	16.34	17.89	16.83	1700.1	1730.1	0.19	0.12	0.08

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# Frequency Mixer

# SYM-12+

## Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=600.1MHz (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)=1200.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+7			+7			+7
590.0	10.1	7.40	10.0	20.1	6.70	1000.0	200.1	8.35
575.1	25.0	7.34	30.0	40.1	6.77	979.8	220.3	8.33
560.3	39.8	7.30	50.0	60.1	6.80	959.6	240.5	8.31
545.4	54.7	7.31	70.0	80.1	6.81	939.4	260.7	8.30
530.5	69.6	7.28	90.0	100.1	6.84	919.2	280.9	8.30
515.6	84.5	7.29	110.0	120.1	6.82	899.0	301.1	8.25
500.8	99.3	7.26	130.0	140.1	6.84	878.8	321.3	8.23
485.9	114.2	7.27	150.0	160.1	6.87	858.6	341.5	8.21
471.0	129.1	7.25	170.0	180.1	6.90	838.4	361.7	8.19
456.2	143.9	7.24	190.0	200.1	6.92	818.2	381.9	8.20
441.3	158.8	7.27	210.0	220.1	6.93	798.0	402.1	8.16
426.4	173.7	7.27	230.0	240.1	6.93	777.8	422.3	8.11
411.5	188.6	7.25	250.0	260.1	6.98	757.6	442.5	8.09
396.7	203.4	7.26	270.0	280.1	7.03	737.3	462.8	8.07
381.8	218.3	7.26	290.0	300.1	7.03	717.1	483.0	8.03
366.9	233.2	7.24	310.0	320.1	7.05	696.9	503.2	7.94
352.1	248.0	7.25	330.0	340.1	7.09	676.7	523.4	7.90
337.2	262.9	7.26	350.0	360.1	7.08	656.5	543.6	7.87
322.3	277.8	7.29	370.0	380.1	7.14	636.3	563.8	7.85
307.4	292.7	7.27	390.0	400.1	7.17	616.1	584.0	7.81
292.6	307.5	7.26	430.0	440.1	7.17	575.7	624.4	7.71
277.7	322.4	7.26	450.0	460.1	7.22	555.5	644.6	7.69
262.8	337.3	7.27	490.0	500.1	7.26	515.1	685.0	7.63
247.9	352.2	7.28	510.0	520.1	7.27	494.9	705.2	7.62
233.1	367.0	7.28	550.0	560.1	7.33	454.5	745.6	7.60
218.2	381.9	7.30	570.0	580.1	7.39	434.3	765.8	7.60
203.3	396.8	7.29	610.0	620.1	7.37	393.9	806.2	7.57
188.5	411.6	7.28	630.0	640.1	7.41	373.7	826.4	7.58
173.6	426.5	7.27	670.0	680.1	7.44	333.3	866.8	7.59
158.7	441.4	7.28	690.0	700.1	7.44	313.1	887.0	7.58
143.8	456.3	7.29	730.0	740.1	7.49	272.7	927.4	7.62
129.0	471.1	7.30	750.0	760.1	7.51	252.4	947.7	7.61
114.1	486.0	7.31	790.0	800.1	7.51	212.0	988.1	7.61
99.2	500.9	7.30	810.0	820.1	7.51	191.8	1008.3	7.61
84.4	515.7	7.30	850.0	860.1	7.56	151.4	1048.7	7.63
69.5	530.6	7.31	870.0	880.1	7.56	131.2	1068.9	7.64
54.6	545.5	7.33	910.0	920.1	7.55	90.8	1109.3	7.64
39.7	560.4	7.34	930.0	940.1	7.57	70.6	1129.5	7.67
24.9	575.2	7.38	970.0	980.1	7.59	30.2	1169.9	7.67
10.0	590.1	7.57	990.0	1000.1	7.61	10.0	1190.1	7.85



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## Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+4	+7	+10	+4	+7	+10
5.0	68.78	72.28	75.69	69.78	69.79	69.15
10.1	68.20	71.75	75.55	68.54	68.24	68.23
49.9	66.04	66.84	67.51	58.30	60.23	62.66
89.6	61.37	62.00	62.73	55.45	58.38	62.89
129.4	58.18	58.97	59.66	53.18	56.17	59.54
169.2	55.74	56.57	57.47	50.46	52.96	55.09
208.9	53.89	54.92	55.69	48.29	50.34	51.42
248.7	52.36	53.30	54.24	46.30	47.76	48.17
288.5	50.78	51.93	52.84	44.93	45.86	45.89
328.2	49.58	50.69	51.70	43.55	43.90	43.54
368.0	48.54	49.73	50.77	42.24	42.21	41.44
407.7	47.38	48.58	49.66	41.28	40.92	39.96
447.5	46.34	47.58	48.82	39.89	39.27	38.22
487.3	45.35	46.55	47.74	39.19	38.31	37.22
527.0	44.51	45.65	46.80	38.21	36.87	35.76
566.8	43.79	44.97	46.11	37.02	35.64	34.48
606.6	43.21	44.37	45.40	36.21	34.66	33.44
646.3	42.74	43.87	44.83	34.99	33.41	32.24
686.1	42.17	43.31	44.34	34.14	32.58	31.42
725.9	41.62	42.69	43.71	33.01	31.42	30.28
765.6	41.12	42.21	43.20	32.29	30.58	29.51
805.4	40.79	42.01	43.06	31.37	29.73	28.65
845.2	40.43	41.82	43.02	30.36	28.82	27.78
884.9	40.32	41.94	43.32	29.93	28.33	27.28
924.7	40.28	42.13	43.72	28.95	27.51	26.48
964.5	40.13	42.16	43.84	28.27	26.92	25.96
1004.2	39.99	42.02	43.73	27.66	26.31	25.48
1044.0	39.80	41.81	43.39	26.83	25.53	24.80
1103.6	39.15	40.83	42.19	26.01	24.87	24.15
1143.4	38.81	40.17	41.19	25.57	24.51	23.80
1203.0	38.16	38.89	39.34	24.91	23.94	23.27
1242.8	38.00	38.34	38.43	24.66	23.65	23.03
1302.5	37.71	37.72	37.38	24.20	23.26	22.65
1342.2	37.34	37.13	36.84	23.87	22.84	22.37
1401.9	36.69	36.06	35.49	23.51	22.66	22.14
1441.6	36.63	35.59	34.81	23.34	22.58	22.03
1541.0	36.55	34.90	33.81	22.93	22.37	21.99
1600.7	36.04	34.29	33.22	22.65	22.24	22.03
1640.5	35.12	33.58	32.50	22.46	22.12	21.94
1700.1	33.93	32.76	31.69	22.42	22.23	22.02

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+4	+7	+10
10.1	40.1	51.23	47.98	50.37
49.9	79.9	37.78	36.84	37.60
89.6	119.6	32.61	32.76	32.52
129.4	159.4	29.83	29.81	29.71
169.2	199.2	27.99	27.97	27.89
208.9	238.9	26.68	26.58	26.56
248.7	278.7	25.75	25.67	25.70
288.5	318.5	24.90	24.91	24.85
328.2	358.2	24.42	24.44	24.45
368.0	398.0	24.13	24.20	24.22
407.7	437.7	23.90	23.94	23.97
447.5	477.5	23.52	23.59	23.67
487.3	517.3	23.21	23.48	23.67
527.0	557.0	23.15	23.62	23.97
566.8	596.8	23.30	23.94	24.42
606.6	636.6	23.37	24.01	24.34
646.3	676.3	22.91	23.38	23.59
686.1	716.1	21.79	22.04	22.13
725.9	755.9	20.34	20.44	20.51
765.6	795.6	18.91	18.95	18.96
805.4	835.4	17.77	17.70	17.72
845.2	875.2	16.87	16.75	16.74
884.9	914.9	16.21	16.08	15.94
924.7	954.7	15.91	15.80	15.62
964.5	994.5	15.83	15.64	15.41
1004.2	1034.2	15.94	15.80	15.64
1044.0	1074.0	16.01	15.96	15.87
1103.6	1133.6	16.18	16.34	16.39
1143.4	1173.4	16.25	16.61	16.78
1203.0	1233.0	15.88	16.39	16.74
1242.8	1272.8	15.41	15.87	16.21
1302.5	1332.5	14.62	14.93	15.20
1342.2	1372.2	14.10	14.29	14.47
1401.9	1431.9	13.35	13.39	13.43
1441.6	1471.6	12.89	12.78	12.70
1501.3	1531.3	12.12	11.87	11.75
1541.0	1571.0	11.68	11.36	11.18
1600.7	1630.7	10.93	10.57	10.34
1640.5	1670.5	10.36	9.94	9.70
1700.1	1730.1	9.65	9.26	9.00



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## Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)		
		@LO (dBm)		
		+4	+7	+10
5.0	35.0	2.78	3.00	3.79
10.1	40.1	2.02	2.56	3.49
49.9	79.9	1.31	1.37	1.43
89.6	119.6	1.31	1.38	1.43
129.4	159.4	1.32	1.38	1.42
169.2	199.2	1.31	1.37	1.42
208.9	238.9	1.31	1.37	1.41
248.7	278.7	1.29	1.35	1.39
288.5	318.5	1.28	1.33	1.38
328.2	358.2	1.27	1.33	1.37
368.0	398.0	1.26	1.32	1.36
407.7	437.7	1.26	1.32	1.36
447.5	477.5	1.26	1.31	1.36
487.3	517.3	1.24	1.30	1.35
527.0	557.0	1.24	1.30	1.35
566.8	596.8	1.23	1.29	1.34
606.6	636.6	1.21	1.28	1.33
646.3	676.3	1.20	1.26	1.30
686.1	716.1	1.17	1.23	1.28
725.9	755.9	1.15	1.21	1.25
765.6	795.6	1.14	1.20	1.25
805.4	835.4	1.16	1.22	1.27
845.2	875.2	1.21	1.26	1.31
884.9	914.9	1.28	1.32	1.37
924.7	954.7	1.37	1.40	1.44
964.5	994.5	1.47	1.49	1.52
1004.2	1034.2	1.58	1.60	1.62
1044.0	1074.0	1.69	1.71	1.73
1103.6	1133.6	1.85	1.88	1.91
1143.4	1173.4	1.96	2.00	2.03
1203.0	1233.0	2.12	2.17	2.20
1242.8	1272.8	2.21	2.28	2.32
1302.5	1332.5	2.35	2.42	2.45
1342.2	1372.2	2.42	2.50	2.55
1401.9	1431.9	2.51	2.59	2.65
1441.6	1471.6	2.57	2.65	2.70
1501.3	1531.3	2.63	2.73	2.79
1541.0	1571.0	2.67	2.78	2.84
1600.7	1630.7	2.68	2.81	2.89
1640.5	1670.5	2.67	2.78	2.86
1700.1	1730.1	2.67	2.77	2.84

LO (MHz)	LO VSWR (:1)		
	@LO (dBm)		
	+4	+7	+10
5.0	1.46	1.43	1.42
10.1	1.23	1.19	1.17
50.3	1.81	2.61	3.66
90.6	1.74	2.48	3.45
130.8	1.76	2.54	3.53
171.1	1.74	2.48	3.43
211.3	1.74	2.48	3.40
251.5	1.76	2.49	3.42
291.8	1.74	2.44	3.31
332.0	1.77	2.48	3.35
372.2	1.77	2.44	3.28
412.5	1.78	2.44	3.27
452.7	1.80	2.44	3.25
493.0	1.80	2.42	3.19
533.2	1.82	2.43	3.19
573.4	1.82	2.40	3.14
613.7	1.83	2.40	3.13
653.9	1.85	2.39	3.10
694.1	1.85	2.38	3.06
734.4	1.87	2.39	3.05
774.6	1.86	2.35	3.00
814.9	1.86	2.35	2.98
855.1	1.85	2.32	2.93
895.3	1.84	2.29	2.89
935.6	1.84	2.28	2.86
975.8	1.81	2.23	2.81
1016.1	1.82	2.23	2.80
1056.3	1.83	2.22	2.77
1096.5	1.81	2.18	2.72
1136.8	1.83	2.19	2.72
1197.1	1.85	2.17	2.66
1237.4	1.90	2.20	2.68
1297.7	1.91	2.17	2.63
1338.0	1.95	2.20	2.65
1398.3	1.97	2.17	2.59
1438.6	2.02	2.20	2.61
1498.9	2.04	2.18	2.57
1539.1	2.07	2.20	2.58
1599.5	2.08	2.17	2.52
1639.7	2.12	2.20	2.54
1700.1	2.15	2.20	2.52

IF (OUT) (MHz)	IF VSWR @LO=1200.1MHz (:1)		
	@LO (dBm)		
	+4	+7	+10
0.03	1.99	1.72	1.52
1.0	2.03	1.73	1.52
3.0	2.02	1.73	1.52
5.0	2.02	1.73	1.52
10.0	2.02	1.73	1.51
16.3	1.69	1.47	1.32
22.4	1.81	1.52	1.44
28.6	1.64	1.44	1.38
34.7	1.69	1.41	1.31
40.9	1.63	1.47	1.29
47.0	1.52	1.36	1.18
53.2	1.60	1.37	1.21
59.3	1.54	1.37	1.25
65.5	1.54	1.38	1.27
71.6	1.57	1.34	1.25
83.9	1.62	1.38	1.27
90.1	1.61	1.41	1.29
96.3	1.58	1.41	1.28
102.4	1.61	1.42	1.29
108.6	1.60	1.42	1.31
114.7	1.62	1.41	1.31
120.9	1.62	1.42	1.28
127.0	1.61	1.39	1.28
139.3	1.57	1.39	1.28
145.5	1.57	1.38	1.27
151.6	1.54	1.37	1.26
157.8	1.55	1.36	1.25
163.9	1.55	1.36	1.25
170.1	1.54	1.37	1.25
176.3	1.55	1.37	1.26
182.4	1.57	1.38	1.28
188.6	1.58	1.41	1.28
194.7	1.59	1.41	1.30
200.9	1.60	1.42	1.32
213.2	1.61	1.40	1.30
219.3	1.59	1.40	1.29
225.5	1.60	1.40	1.28
231.6	1.59	1.40	1.28
237.8	1.58	1.40	1.27
243.9	1.58	1.39	1.26
250.1	1.57	1.38	1.27

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## Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	5	33	26	35	21	39	38	39	47	46
1	-	16	+0	30	13	39	33	30	34	32	46	36
2	>100	64	64	61	71	68	66	76	61	>78	65	68
3	>100	72	73	71	65	72	65	>78	78	75	64	72
4	>100	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
5	>100	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
6	>100	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
7	>100	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
8	>100	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
9	>100	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
10	>100	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 600.1 MHz; -14.00 dBm.  
 LO IN: 630.01 MHz; +7.00 dBm  
 IF OUT: 29.91 MHz; -21.63 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	15	43	37	46	32	48	54	53	57	63
1	-	16	+0	30	13	41	33	32	34	37	59	41
2	93	58	54	53	63	64	58	67	52	66	61	63
3	>100	52	61	56	50	56	51	64	73	52	50	50
4	>100	>88	85	73	81	73	72	76	81	88	70	79
5	>100	77	82	84	63	68	60	70	59	76	70	76
6	>100	>88	>88	>88	>88	86	>88	87	>88	88	>88	>88
7	>100	85	85	87	>88	83	78	80	77	80	81	>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: 600.1 MHz; -4.00 dBm.  
 LO IN: 630.01 MHz; +7.00 dBm  
 IF OUT: 29.91 MHz; -11.51 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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