

# Frequency Mixer

# SYM-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=+1dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+4	+7	+10			+4	+7	+10			+4	+7	+10
1.0	31.0	7.65	7.23	7.05	10.1	40.1	16.41	19.47	22.74	10.1	40.1	1.24	0.92	0.70
2.0	32.0	6.99	6.50	6.38	50.4	80.4	16.87	17.73	20.73	50.4	80.4	1.19	0.80	0.65
5.0	35.0	6.14	5.80	5.68	90.7	120.7	15.39	18.95	21.85	90.7	120.7	1.24	0.84	0.64
10.0	40.0	6.01	5.62	5.47	131.0	161.0	17.07	16.83	21.99	131.0	161.0	1.17	0.83	0.62
50.4	80.4	5.75	5.43	5.17	171.4	201.4	16.38	20.99	26.37	171.4	201.4	1.13	0.80	0.59
90.7	120.7	5.74	5.41	5.22	211.7	241.7	20.44	21.62	21.41	211.7	241.7	1.13	0.78	0.57
131.0	161.0	5.76	5.44	5.24	252.0	282.0	26.10	22.47	23.05	252.0	282.0	1.09	0.78	0.56
171.4	201.4	5.78	5.45	5.26	292.3	322.3	22.36	17.90	19.44	292.3	322.3	1.07	0.81	0.60
252.0	282.0	5.79	5.48	5.35	332.6	362.6	24.08	19.66	20.00	332.6	362.6	1.08	0.75	0.61
292.3	322.3	5.79	5.49	5.32	372.9	402.9	19.74	19.16	19.37	372.9	402.9	1.04	0.73	0.57
332.6	362.6	5.81	5.56	5.38	413.2	443.2	14.74	19.01	26.12	413.2	443.2	1.09	0.76	0.59
372.9	402.9	5.84	5.58	5.42	453.5	483.5	14.68	15.03	15.83	453.5	483.5	1.06	0.72	0.58
413.2	443.2	5.81	5.53	5.40	493.9	523.9	18.17	26.17	22.26	493.9	523.9	0.96	0.67	0.53
453.5	483.5	5.88	5.59	5.41	514.0	544.0	17.59	19.51	17.26	514.0	544.0	0.99	0.69	0.51
493.9	523.9	5.90	5.65	5.47	554.3	584.3	16.75	23.04	18.19	554.3	584.3	0.96	0.69	0.51
514.0	544.0	6.00	5.70	5.50	574.5	604.5	16.91	20.30	19.16	574.5	604.5	1.01	0.70	0.54
554.3	584.3	6.05	5.76	5.56	614.8	644.8	18.97	17.57	19.48	614.8	644.8	1.04	0.72	0.57
574.5	604.5	6.06	5.80	5.60	634.9	664.9	17.52	19.24	18.50	634.9	664.9	1.07	0.75	0.56
614.8	644.8	6.16	5.87	5.70	675.3	705.3	17.80	20.61	17.59	675.3	705.3	1.07	0.73	0.53
675.3	705.3	6.27	6.00	5.88	695.4	725.4	15.10	17.80	18.48	695.4	725.4	1.08	0.75	0.50
695.4	725.4	6.32	6.06	5.94	735.7	765.7	10.54	16.90	24.37	735.7	765.7	1.14	0.76	0.52
735.7	765.7	6.44	6.20	6.05	755.9	785.9	8.68	12.27	18.15	755.9	785.9	1.20	0.81	0.57
755.9	785.9	6.43	6.25	6.12	796.2	826.2	6.52	8.57	11.95	796.2	826.2	1.25	0.86	0.64
796.2	826.2	6.53	6.35	6.18	816.4	846.4	5.85	7.24	9.24	816.4	846.4	1.36	0.95	0.73
816.4	846.4	6.57	6.36	6.21	856.7	886.7	6.01	6.98	8.07	856.7	886.7	1.37	0.98	0.74
856.7	886.7	6.73	6.49	6.35	876.8	906.8	6.43	7.21	8.53	876.8	906.8	1.40	1.00	0.76
876.8	906.8	6.85	6.56	6.39	917.1	947.1	7.05	8.76	10.44	917.1	947.1	1.51	1.07	0.84
917.1	947.1	7.01	6.73	6.53	937.3	967.3	7.56	9.33	11.68	937.3	967.3	1.59	1.15	0.88
937.3	967.3	7.06	6.73	6.56	977.6	1007.6	8.70	12.40	14.93	977.6	1007.6	1.55	1.13	0.87
977.6	1007.6	7.28	6.86	6.59	997.8	1027.8	9.33	13.35	17.41	997.8	1027.8	1.58	1.18	0.85
997.8	1027.8	7.36	6.88	6.60	1038.1	1068.1	9.74	16.02	21.85	1038.1	1068.1	1.54	1.20	0.89
1038.1	1068.1	7.67	7.05	6.76	1058.2	1088.2	9.38	18.22	20.74	1058.2	1088.2	1.53	1.19	0.85
1058.2	1088.2	7.83	7.14	6.77	1098.5	1128.5	8.64	18.82	19.27	1098.5	1128.5	1.37	1.20	0.90
1098.5	1128.5	8.29	7.46	6.99	1118.7	1148.7	8.30	21.33	16.03	1118.7	1148.7	1.27	1.16	0.93
1159.0	1189.0	9.13	8.03	7.40	1159.0	1189.0	7.85	17.79	14.73	1159.0	1189.0	1.03	1.07	0.87
1179.2	1209.2	9.44	8.28	7.60	1179.2	1209.2	8.19	14.86	15.17	1179.2	1209.2	0.92	1.03	0.92
1219.5	1249.5	9.96	8.78	7.93	1219.5	1249.5	7.95	13.47	14.76	1219.5	1249.5	0.69	0.91	0.90
1239.6	1269.6	10.28	9.08	8.17	1239.6	1269.6	7.58	11.08	15.20	1239.6	1269.6	0.61	0.84	0.92
1279.9	1309.9	10.97	9.77	8.82	1279.9	1309.9	7.29	9.65	12.19	1279.9	1309.9	0.38	0.72	0.88
1300.1	1330.1	11.29	10.13	9.14	1300.1	1330.1	7.11	9.00	11.53	1300.1	1330.1	0.30	0.55	0.84



# Frequency Mixer

# SYM-2+

## Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=500.1MHz (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)=1000.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+7			+7			+7
490.0	10.1	5.89	10.0	20.1	5.24	990.0	10.1	8.02
477.7	22.4	5.86	30.0	40.1	5.17	970.0	30.1	8.06
465.4	34.7	5.82	50.0	60.1	5.21	950.0	50.1	8.03
453.1	47.0	5.81	70.0	80.1	5.27	930.0	70.1	8.04
440.8	59.3	5.86	90.0	100.1	5.27	910.0	90.1	8.02
428.5	71.6	5.81	110.0	120.1	5.27	890.0	110.1	7.96
416.2	83.9	5.81	130.0	140.1	5.26	870.0	130.1	7.83
403.8	96.3	5.75	150.0	160.1	5.30	850.0	150.1	7.80
391.5	108.6	5.70	170.0	180.1	5.33	830.0	170.1	7.80
379.2	120.9	5.69	190.0	200.1	5.32	810.0	190.1	7.73
366.9	133.2	5.68	210.0	220.1	5.31	790.0	210.1	7.71
354.6	145.5	5.65	230.0	240.1	5.30	770.0	230.1	7.65
342.3	157.8	5.65	250.0	260.1	5.37	750.0	250.1	7.60
330.0	170.1	5.64	270.0	280.1	5.36	730.0	270.1	7.61
317.7	182.4	5.64	290.0	300.1	5.36	710.0	290.1	7.59
305.4	194.7	5.63	310.0	320.1	5.38	690.0	310.1	7.57
293.1	207.0	5.61	330.0	340.1	5.39	670.0	330.1	7.54
280.8	219.3	5.59	350.0	360.1	5.41	650.0	350.1	7.55
268.5	231.6	5.62	370.0	380.1	5.45	630.0	370.1	7.58
256.2	243.9	5.61	390.0	400.1	5.45	610.0	390.1	7.61
243.8	256.3	5.62	430.0	440.1	5.47	570.0	430.1	7.53
231.5	268.6	5.61	450.0	460.1	5.45	550.0	450.1	7.54
219.2	280.9	5.59	490.0	500.1	5.41	510.0	490.1	7.49
206.9	293.2	5.61	510.0	520.1	5.41	490.0	510.1	7.47
194.6	305.5	5.62	550.0	560.1	5.46	450.0	550.1	7.46
182.3	317.8	5.62	570.0	580.1	5.50	430.0	570.1	7.48
170.0	330.1	5.62	610.0	620.1	5.59	390.0	610.1	7.36
157.7	342.4	5.62	630.0	640.1	5.64	370.0	630.1	7.33
145.4	354.7	5.62	670.0	680.1	5.68	330.0	670.1	7.23
133.1	367.0	5.62	690.0	700.1	5.69	310.0	690.1	7.19
120.8	379.3	5.60	730.0	740.1	5.72	270.0	730.1	7.13
108.5	391.6	5.58	750.0	760.1	5.69	250.0	750.1	7.17
96.2	403.9	5.58	790.0	800.1	5.72	210.0	790.1	7.16
83.8	416.3	5.57	810.0	820.1	5.72	190.0	810.1	7.19
71.5	428.6	5.58	850.0	860.1	5.75	150.0	850.1	7.32
59.2	440.9	5.60	870.0	880.1	5.77	130.0	870.1	7.30
46.9	453.2	5.59	910.0	920.1	5.80	90.0	910.1	7.19
34.6	465.5	5.61	930.0	940.1	5.79	70.0	930.1	7.15
22.3	477.8	5.63	970.0	980.1	5.80	30.0	970.1	7.05
10.0	490.1	5.66	990.0	1000.1	5.78	10.0	990.1	7.04

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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
1.0	64.00	67.00	70.00	64.00	67.00	70.00
2.0	64.00	67.00	70.00	64.00	67.00	70.00
5.0	64.00	67.00	70.00	64.00	67.00	70.00
10.0	64.00	67.00	70.00	64.00	67.00	70.00
50.4	67.97	71.34	73.65	54.17	52.62	51.87
90.7	62.20	65.76	69.53	49.12	47.61	46.66
131.0	58.11	61.43	65.41	45.97	45.02	44.35
171.4	54.66	57.92	61.54	44.10	43.10	42.18
252.0	50.30	53.13	55.70	41.54	40.36	39.41
292.3	48.43	50.88	52.97	40.20	39.15	38.36
332.6	47.09	49.12	50.82	38.91	37.86	37.13
372.9	45.60	47.47	48.81	37.64	36.71	35.96
413.2	44.22	45.94	47.28	36.83	35.75	34.94
453.5	43.02	44.36	45.56	35.56	34.87	34.00
493.9	42.05	43.43	44.55	34.44	33.78	33.35
514.0	41.71	43.08	44.20	33.80	33.13	32.61
554.3	41.19	42.33	43.23	32.81	32.27	31.55
574.5	41.01	41.94	42.73	32.37	31.99	31.44
614.8	40.98	41.80	42.13	31.41	31.18	30.93
675.3	40.33	41.56	42.10	30.30	30.02	29.97
695.4	39.99	41.31	41.83	29.95	29.64	29.49
735.7	39.25	40.37	40.92	29.44	28.82	28.39
755.9	38.93	40.09	40.72	29.36	28.79	28.30
796.2	38.24	39.55	40.30	29.01	28.74	28.05
816.4	37.86	39.23	40.10	28.74	28.70	28.13
856.7	37.45	39.05	40.14	28.23	28.52	28.24
876.8	37.31	39.08	40.29	28.03	28.46	28.33
917.1	36.76	38.72	40.23	27.29	27.77	27.99
937.3	36.67	38.74	40.32	27.18	27.78	27.94
977.6	36.43	38.63	40.38	26.70	27.35	27.68
997.8	36.49	38.74	40.55	26.51	27.21	27.55
1038.1	36.50	38.78	40.58	25.74	26.55	27.12
1058.2	36.75	39.07	40.88	25.63	26.33	26.97
1098.5	36.91	39.26	41.18	25.26	25.57	26.29
1159.0	37.56	39.93	41.89	25.27	25.19	25.55
1179.2	37.74	39.96	41.80	25.36	25.19	25.37
1219.5	38.00	39.87	41.26	25.19	25.21	25.21
1239.6	38.13	39.79	40.90	25.25	25.36	25.30
1279.9	38.33	39.62	40.39	25.21	25.53	25.52
1300.1	38.40	39.55	40.25	25.24	25.72	25.76

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+4	+7	+10
10.1	40.1	43.50	40.93	44.96
50.4	80.4	31.91	32.13	32.21
90.7	120.7	27.83	27.84	27.88
131.0	161.0	25.13	25.18	25.17
171.4	201.4	23.34	23.48	23.58
211.7	241.7	22.36	22.40	22.49
252.0	282.0	21.76	21.89	22.09
292.3	322.3	21.49	21.50	21.59
332.6	362.6	21.79	21.95	21.96
372.9	402.9	22.09	22.49	22.78
413.2	443.2	22.33	22.88	23.31
453.5	483.5	22.92	23.17	23.41
493.9	523.9	23.95	23.88	23.86
514.0	544.0	24.25	24.11	24.09
554.3	584.3	23.89	24.01	24.19
574.5	604.5	22.80	23.34	23.77
614.8	644.8	19.81	20.52	21.09
634.9	664.9	18.57	19.21	19.79
675.3	705.3	16.54	16.89	17.24
695.4	725.4	15.77	16.05	16.34
735.7	765.7	14.53	14.65	14.81
755.9	785.9	14.05	14.10	14.12
796.2	826.2	13.38	13.23	13.17
816.4	846.4	13.03	12.84	12.74
856.7	886.7	12.49	12.31	12.12
876.8	906.8	12.15	11.97	11.86
917.1	947.1	11.70	11.45	11.29
937.3	967.3	11.50	11.23	11.08
977.6	1007.6	11.19	10.91	10.79
997.8	1027.8	11.06	10.85	10.78
1038.1	1068.1	10.87	10.85	10.77
1058.2	1088.2	10.78	10.74	10.79
1098.5	1128.5	10.58	10.59	10.72
1118.7	1148.7	10.52	10.56	10.69
1159.0	1189.0	10.43	10.53	10.65
1179.2	1209.2	10.33	10.42	10.67
1219.5	1249.5	10.17	10.39	10.59
1239.6	1269.6	10.09	10.33	10.54
1279.9	1309.9	9.88	10.18	10.42
1300.1	1330.1	9.78	10.03	10.30

# Frequency Mixer

# SYM-2+

## Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1000.5MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+4	+7	+10		+4	+7	+10		+4	+7	+10
5.0	35.0	1.26	1.30	1.34	5.0	1.77	2.70	4.33	5.0	1.43	1.24	1.09
10.0	40.0	1.12	1.15	1.20	10.0	1.71	2.63	3.91	10.0	1.44	1.25	1.10
50.4	80.4	1.18	1.09	1.04	50.4	1.85	2.67	3.77	30.2	1.63	1.43	1.30
90.7	120.7	1.19	1.09	1.05	90.7	1.79	2.54	3.54	50.4	1.65	1.44	1.31
131.0	161.0	1.18	1.09	1.07	131.0	1.81	2.60	3.62	70.6	1.62	1.44	1.31
171.4	201.4	1.16	1.10	1.10	171.4	1.78	2.52	3.51	90.8	1.62	1.40	1.28
211.7	241.7	1.16	1.11	1.12	211.7	1.80	2.56	3.54	111.0	1.63	1.42	1.31
252.0	282.0	1.18	1.14	1.16	252.0	1.82	2.58	3.56	131.2	1.67	1.45	1.34
292.3	322.3	1.19	1.17	1.18	292.3	1.81	2.54	3.50	151.4	1.66	1.46	1.35
332.6	362.6	1.21	1.19	1.21	332.6	1.85	2.61	3.57	171.6	1.60	1.41	1.32
372.9	402.9	1.23	1.24	1.26	372.9	1.85	2.58	3.51	191.8	1.62	1.43	1.35
413.2	443.2	1.25	1.26	1.30	413.2	1.89	2.63	3.56	212.0	1.69	1.49	1.41
453.5	483.5	1.27	1.28	1.31	453.5	1.92	2.65	3.56	232.2	1.66	1.47	1.39
493.9	523.9	1.31	1.32	1.35	493.9	1.92	2.64	3.54	252.4	1.63	1.45	1.37
514.0	544.0	1.32	1.33	1.36	514.0	1.94	2.67	3.56	272.7	1.65	1.47	1.40
554.3	584.3	1.38	1.39	1.42	554.3	1.98	2.69	3.56	292.9	1.69	1.50	1.44
574.5	604.5	1.41	1.42	1.45	574.5	1.99	2.69	3.56	313.1	1.68	1.50	1.45
614.8	644.8	1.46	1.48	1.52	614.8	2.03	2.73	3.59	333.3	1.68	1.52	1.47
634.9	664.9	1.49	1.52	1.55	634.9	2.05	2.75	3.60	353.5	1.70	1.55	1.50
675.3	705.3	1.52	1.57	1.61	675.3	2.07	2.74	3.56	373.7	1.70	1.55	1.52
695.4	725.4	1.52	1.58	1.63	695.4	2.09	2.76	3.57	393.9	1.74	1.58	1.56
735.7	765.7	1.51	1.57	1.61	735.7	2.14	2.81	3.61	434.3	1.76	1.61	1.58
755.9	785.9	1.49	1.54	1.58	755.9	2.16	2.82	3.62	454.5	1.72	1.59	1.57
796.2	826.2	1.47	1.50	1.53	796.2	2.19	2.85	3.64	494.9	1.82	1.69	1.69
816.4	846.4	1.45	1.47	1.49	816.4	2.20	2.86	3.65	515.1	1.82	1.69	1.69
856.7	886.7	1.46	1.47	1.48	856.7	2.24	2.88	3.65	555.5	1.81	1.70	1.70
876.8	906.8	1.46	1.46	1.46	876.8	2.26	2.89	3.64	575.7	1.85	1.75	1.75
917.1	947.1	1.51	1.49	1.50	917.1	2.29	2.89	3.63	616.1	1.86	1.74	1.75
937.3	967.3	1.55	1.53	1.54	937.3	2.32	2.91	3.63	636.3	1.85	1.74	1.76
977.6	1007.6	1.68	1.65	1.65	977.6	2.36	2.92	3.62	676.7	1.89	1.81	1.83
997.8	1027.8	1.74	1.71	1.70	997.8	2.37	2.92	3.60	696.9	1.98	1.88	1.89
1038.1	1068.1	1.90	1.86	1.85	1038.1	2.44	2.96	3.64	737.3	1.88	1.79	1.80
1058.2	1088.2	1.98	1.93	1.92	1058.2	2.47	3.00	3.66	757.6	1.92	1.82	1.84
1098.5	1128.5	2.18	2.12	2.07	1098.5	2.52	3.05	3.68	798.0	1.97	1.88	1.88
1118.7	1148.7	2.29	2.20	2.15	1118.7	2.55	3.08	3.71	818.2	1.94	1.84	1.85
1159.0	1189.0	2.48	2.37	2.30	1159.0	2.62	3.16	3.79	858.6	1.94	1.85	1.86
1179.2	1209.2	2.57	2.46	2.37	1179.2	2.63	3.17	3.79	878.8	1.99	1.89	1.88
1219.5	1249.5	2.73	2.61	2.49	1219.5	2.65	3.19	3.80	919.2	2.00	1.87	1.82
1239.6	1269.6	2.80	2.67	2.55	1239.6	2.68	3.22	3.84	939.4	1.92	1.79	1.76
1279.9	1309.9	2.92	2.82	2.68	1279.9	2.72	3.25	3.86	979.8	2.08	1.93	1.87
1300.1	1330.1	2.96	2.86	2.73	1300.1	2.72	3.24	3.85	1000.0	2.20	2.10	2.07

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## Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	6	21	17	26	35	34	29	41	30	66
1	-	18	+0	23	11	27	20	40	44	38	47	46
2	>100	58	50	56	51	65	50	56	64	70	67	63
3	>100	>80	74	76	73	72	67	75	77	79	77	70
4	>100	>80	>80	>80	>80	>80	>80	>80	>80	>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: 500.1 MHz; -14.00 dBm.  
 LO IN: 530.01 MHz; +7.00 dBm  
 IF OUT: 29.91 MHz; -19.71 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	16	33	30	39	55	48	41	59	44	70
1	-	18	+0	24	12	28	21	44	44	45	63	54
2	96	49	42	52	43	60	45	51	57	59	58	71
3	>100	56	52	52	47	49	41	51	45	58	63	51
4	>100	65	70	60	61	59	61	63	54	61	68	72
5	>100	79	67	81	61	69	56	64	56	79	62	80
6	>100	>90	85	86	87	80	73	80	71	75	76	76
7	>100	86	>90	>90	81	85	86	83	79	79	71	>90
8	>100	>90	>90	>90	>90	89	>90	86	87	85	84	87
9	>100	>90	>90	>90	>90	>90	>90	>90	>90	>90	86	>90
10	>100	>90	>90	>90	>90	>90	>90	>90	>90	>90	>90	>90
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 500.1 MHz; -4.00 dBm.  
 LO IN: 530.01 MHz; +7.00 dBm  
 IF OUT: 29.91 MHz; -9.9 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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