

Frequency Mixer

TSM-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	21.28	21.23	20.02	10.1	40.1	0.98	0.69	0.48
2.0	32.0	6.99	6.50	6.38	50.4	80.4	18.95	20.63	24.50	50.4	80.4	0.97	0.68	0.46
5.0	35.0	6.14	5.80	5.68	90.7	120.7	20.55	20.29	22.38	90.7	120.7	0.90	0.62	0.40
10.0	40.0	6.01	5.62	5.47	131.0	161.0	20.91	20.52	23.84	131.0	161.0	0.93	0.63	0.41
50.4	80.4	5.98	5.72	5.59	171.3	201.3	18.04	21.57	25.21	171.3	201.3	0.85	0.56	0.36
90.7	120.7	5.98	5.74	5.62	211.5	241.5	16.10	19.83	24.72	211.5	241.5	0.87	0.58	0.40
131.0	161.0	5.99	5.77	5.66	251.8	281.8	18.87	24.24	26.16	251.8	281.8	0.78	0.52	0.36
171.3	201.3	5.97	5.76	5.65	292.1	322.1	14.33	15.91	19.41	292.1	322.1	0.78	0.54	0.39
251.8	281.8	5.99	5.78	5.68	332.4	362.4	14.38	18.15	26.14	332.4	362.4	0.75	0.53	0.39
292.1	322.1	5.99	5.81	5.70	372.7	402.7	15.23	19.91	20.35	372.7	402.7	0.72	0.52	0.39
332.4	362.4	6.06	5.85	5.73	413.0	443.0	22.25	21.58	18.61	413.0	443.0	0.85	0.59	0.44
372.7	402.7	6.13	5.90	5.75	453.3	483.3	20.74	20.52	19.94	453.3	483.3	1.00	0.70	0.50
413.0	443.0	6.20	5.99	5.85	493.6	523.6	12.77	18.11	23.52	493.6	523.6	1.12	0.84	0.60
453.3	483.3	6.18	5.96	5.85	533.9	563.9	9.27	11.03	14.34	533.9	563.9	1.28	0.98	0.74
493.6	523.6	6.32	6.08	5.94	574.2	604.2	8.16	9.47	11.65	574.2	604.2	1.39	1.08	0.84
533.9	563.9	6.47	6.24	6.07	614.4	644.4	8.41	10.77	14.39	614.4	644.4	1.59	1.25	1.02
574.2	604.2	6.64	6.41	6.24	654.7	684.7	11.07	14.93	20.43	654.7	684.7	1.79	1.41	1.12
614.4	644.4	6.77	6.50	6.30	695.0	725.0	17.79	19.74	17.49	695.0	725.0	1.97	1.52	1.21
654.7	684.7	6.76	6.45	6.26	735.3	765.3	18.61	13.07	12.93	735.3	765.3	2.08	1.69	1.35
695.0	725.0	6.82	6.45	6.24	775.6	805.6	11.82	11.71	11.20	775.6	805.6	1.98	1.71	1.37
735.3	765.3	6.97	6.44	6.18	815.9	845.9	7.84	10.30	10.31	815.9	845.9	1.82	1.72	1.43
815.9	845.9	7.48	6.65	6.19	856.2	886.2	6.17	8.83	9.19	856.2	886.2	1.61	1.56	1.37
856.2	886.2	7.82	6.94	6.35	896.5	926.5	5.23	7.23	8.60	896.5	926.5	1.51	1.43	1.29
896.5	926.5	8.01	7.21	6.56	916.6	946.6	4.54	6.32	7.83	916.6	946.6	1.43	1.36	1.24
916.6	946.6	8.20	7.44	6.79	956.9	986.9	3.68	4.93	6.49	956.9	986.9	1.31	1.23	1.15
956.9	986.9	8.50	7.81	7.18	977.1	1007.1	3.40	4.39	5.83	977.1	1007.1	1.28	1.20	1.13
977.1	1007.1	8.57	7.93	7.31	1017.3	1047.3	3.37	4.02	5.28	1017.3	1047.3	1.15	1.09	1.11
1017.3	1047.3	8.81	8.24	7.66	1037.5	1067.5	3.75	4.38	5.74	1037.5	1067.5	1.07	1.02	1.06
1037.5	1067.5	8.90	8.36	7.81	1077.8	1107.8	5.27	6.29	7.88	1077.8	1107.8	1.01	0.91	0.91
1077.8	1107.8	8.88	8.47	8.06	1097.9	1127.9	6.59	7.52	8.93	1097.9	1127.9	0.99	0.82	0.77
1097.9	1127.9	8.83	8.52	8.22	1138.2	1168.2	9.86	10.08	10.72	1138.2	1168.2	1.03	0.77	0.62
1138.2	1168.2	8.73	8.55	8.39	1158.4	1188.4	11.16	11.20	11.79	1158.4	1188.4	1.03	0.75	0.59
1158.4	1188.4	8.68	8.51	8.39	1198.7	1228.7	13.34	13.03	13.67	1198.7	1228.7	0.90	0.64	0.48
1198.7	1228.7	8.75	8.60	8.50	1218.8	1248.8	14.29	13.97	14.38	1218.8	1248.8	0.81	0.57	0.42
1259.1	1289.1	9.05	8.89	8.78	1259.1	1289.1	14.68	14.52	14.06	1259.1	1289.1	0.69	0.44	0.31
1279.2	1309.2	9.21	9.05	8.95	1279.2	1309.2	14.91	15.27	14.54	1279.2	1309.2	0.62	0.39	0.26
1319.5	1349.5	9.52	9.34	9.23	1319.5	1349.5	15.67	16.82	16.41	1319.5	1349.5	0.49	0.31	0.20
1339.7	1369.7	9.67	9.49	9.37	1339.7	1369.7	15.93	17.69	16.97	1339.7	1369.7	0.46	0.27	0.18
1380.0	1410.0	10.08	9.88	9.77	1380.0	1410.0	16.34	18.80	18.34	1380.0	1410.0	0.38	0.22	0.15
1400.1	1430.1	10.24	10.05	9.94	1400.1	1430.1	16.30	17.62	19.71	1400.1	1430.1	0.33	0.19	0.13

REV. X2
TSM-2
100818
Page 1 of 5



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Frequency Mixer

TSM-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	6.10	10.0	20.1	5.70	990.0	10.1	7.30
477.7	22.4	6.05	30.0	40.1	5.75	970.0	30.1	7.34
465.4	34.7	6.01	50.0	60.1	5.76	950.0	50.1	7.39
453.1	47.0	5.97	70.0	80.1	5.75	930.0	70.1	7.49
440.8	59.3	5.94	90.0	100.1	5.76	910.0	90.1	7.53
428.5	71.6	5.89	110.0	120.1	5.78	890.0	110.1	7.53
416.2	83.9	5.86	130.0	140.1	5.82	870.0	130.1	7.55
403.8	96.3	5.87	150.0	160.1	5.82	850.0	150.1	7.55
391.5	108.6	5.85	170.0	180.1	5.80	830.0	170.1	7.60
379.2	120.9	5.85	190.0	200.1	5.82	810.0	190.1	7.59
366.9	133.2	5.86	210.0	220.1	5.84	790.0	210.1	7.57
354.6	145.5	5.87	230.0	240.1	5.88	770.0	230.1	7.54
342.3	157.8	5.87	250.0	260.1	5.87	750.0	250.1	7.44
330.0	170.1	5.88	270.0	280.1	5.87	730.0	270.1	7.53
317.7	182.4	5.90	290.0	300.1	5.90	710.0	290.1	7.48
305.4	194.7	5.90	310.0	320.1	5.94	690.0	310.1	7.49
293.1	207.0	5.91	330.0	340.1	5.97	670.0	330.1	7.48
280.8	219.3	5.92	350.0	360.1	5.93	650.0	350.1	7.42
268.5	231.6	5.94	370.0	380.1	5.94	630.0	370.1	7.32
256.2	243.9	5.93	390.0	400.1	5.98	610.0	390.1	7.35
243.8	256.3	5.95	430.0	440.1	6.08	570.0	430.1	7.37
231.5	268.6	5.96	450.0	460.1	6.11	550.0	450.1	7.24
219.2	280.9	5.95	490.0	500.1	6.20	510.0	490.1	7.03
206.9	293.2	5.96	510.0	520.1	6.28	490.0	510.1	7.08
194.6	305.5	5.99	550.0	560.1	6.37	450.0	550.1	7.21
182.3	317.8	6.01	570.0	580.1	6.36	430.0	570.1	7.26
170.0	330.1	6.02	610.0	620.1	6.26	390.0	610.1	7.25
157.7	342.4	6.01	630.0	640.1	6.16	370.0	630.1	7.14
145.4	354.7	6.01	670.0	680.1	5.96	330.0	670.1	6.85
133.1	367.0	6.01	690.0	700.1	5.89	310.0	690.1	6.76
120.8	379.3	6.00	730.0	740.1	5.79	270.0	730.1	6.78
108.5	391.6	6.01	750.0	760.1	5.75	250.0	750.1	6.74
96.2	403.9	6.02	790.0	800.1	5.77	210.0	790.1	6.78
83.8	416.3	6.02	810.0	820.1	5.85	190.0	810.1	6.83
71.5	428.6	6.03	850.0	860.1	5.93	150.0	850.1	7.03
59.2	440.9	6.06	870.0	880.1	5.92	130.0	870.1	7.22
46.9	453.2	6.05	910.0	920.1	5.84	90.0	910.1	7.50
34.6	465.5	6.04	930.0	940.1	5.80	70.0	930.1	7.62
22.3	477.8	6.06	970.0	980.1	5.73	30.0	970.1	7.92
10.0	490.1	6.02	990.0	1000.1	5.70	10.0	990.1	8.00



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	62.13	63.60	65.16	63.99	59.79	57.39
90.7	57.17	58.97	60.78	59.23	55.10	52.73
131.0	53.75	55.73	57.46	57.35	53.36	50.65
171.3	51.57	53.51	55.18	54.59	51.47	48.77
251.8	48.27	50.12	51.73	48.12	47.70	46.05
292.1	47.12	48.92	50.35	45.33	45.48	44.34
332.4	45.57	47.18	48.65	43.22	44.04	43.56
372.7	45.19	47.12	48.73	41.09	42.06	42.00
413.0	44.70	46.43	47.95	39.43	40.58	40.78
453.3	43.89	45.30	46.48	38.28	39.84	40.43
493.6	43.19	44.90	46.12	37.40	38.91	39.44
533.9	41.51	43.25	44.74	36.15	37.57	38.38
574.2	40.29	42.06	43.70	35.04	36.39	37.14
614.4	39.51	41.37	43.21	33.79	35.27	36.19
654.7	39.01	41.26	43.45	32.81	34.40	35.49
695.0	38.95	41.23	43.23	31.75	33.30	34.41
735.3	38.28	40.57	42.74	30.72	32.24	33.48
815.9	37.45	39.76	41.91	29.46	30.74	31.97
856.2	37.15	39.37	41.50	29.39	30.65	31.81
896.5	37.26	39.45	41.51	29.03	30.40	31.54
916.6	37.46	39.79	42.06	28.84	30.26	31.40
956.9	37.40	39.47	41.65	28.52	29.96	31.19
977.1	37.51	39.49	41.51	28.33	29.77	30.95
1017.3	37.60	39.43	41.29	27.91	29.21	30.23
1037.5	37.44	38.99	40.42	27.70	28.92	29.83
1077.8	37.56	38.96	40.06	27.41	28.34	29.01
1097.9	37.69	39.10	40.21	27.14	27.91	28.46
1138.2	39.17	40.40	41.14	26.78	27.35	27.77
1158.4	40.16	41.36	41.89	26.65	27.16	27.49
1198.7	40.66	41.38	41.42	26.52	26.85	27.02
1259.1	41.15	41.06	40.46	26.64	26.65	26.59
1279.2	41.37	40.93	40.14	26.68	26.55	26.41
1319.5	41.21	40.11	39.01	26.57	26.20	25.90
1339.7	41.50	40.14	38.95	26.64	26.16	25.82
1380.0	42.19	39.89	38.33	26.65	25.99	25.51
1400.1	42.08	39.50	37.81	26.53	25.85	25.30

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+4	+7	+10
10.1	40.1	50.21	46.26	43.86
50.4	80.4	42.65	42.92	42.78
90.7	120.7	38.37	38.73	39.04
131.0	161.0	36.17	36.48	36.80
171.3	201.3	35.04	35.41	35.75
211.5	241.5	34.40	34.80	35.24
251.8	281.8	34.73	35.27	35.65
292.1	322.1	35.26	36.32	37.09
332.4	362.4	35.30	35.84	35.90
372.7	402.7	33.79	33.91	33.87
413.0	443.0	32.57	33.09	33.51
453.3	483.3	31.25	32.12	32.65
493.6	523.6	28.61	28.54	28.44
533.9	563.9	26.07	25.67	25.25
574.2	604.2	23.88	23.43	23.02
614.4	644.4	22.07	21.57	21.12
654.7	684.7	20.65	20.09	19.67
695.0	725.0	19.81	19.25	18.88
735.3	765.3	19.65	19.03	18.63
775.6	805.6	19.53	19.13	18.80
815.9	845.9	19.30	19.06	18.86
856.2	886.2	19.01	18.68	18.44
896.5	926.5	18.79	18.51	18.14
916.6	946.6	18.65	18.46	18.09
956.9	986.9	18.27	18.14	17.93
977.1	1007.1	18.04	17.92	17.76
1017.3	1047.3	17.44	17.23	17.02
1037.5	1067.5	17.12	16.87	16.60
1077.8	1107.8	16.29	15.94	15.64
1097.9	1127.9	15.77	15.41	15.13
1138.2	1168.2	14.67	14.30	14.03
1158.4	1188.4	14.10	13.73	13.48
1198.7	1228.7	13.06	12.71	12.47
1218.8	1248.8	12.66	12.29	12.02
1259.1	1289.1	11.89	11.53	11.27
1279.2	1309.2	11.55	11.20	10.93
1319.5	1349.5	10.92	10.56	10.34
1339.7	1369.7	10.63	10.30	10.07
1380.0	1410.0	10.16	9.83	9.60
1400.1	1430.1	9.92	9.59	9.39

Frequency Mixer

TSM-2

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1000.1MHz (: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	1.05	1.03	1.09	50.4	1.71	2.44	3.35	30.2	2.67	2.27	1.93
90.7	120.7	1.02	1.06	1.12	90.7	1.77	2.54	3.50	50.4	2.68	2.28	1.94
131.0	161.0	1.04	1.10	1.15	131.0	1.73	2.45	3.34	70.6	2.71	2.31	1.96
171.3	201.3	1.04	1.10	1.15	171.3	1.72	2.44	3.32	90.8	2.73	2.33	1.98
211.5	241.5	1.07	1.14	1.18	211.5	1.77	2.51	3.40	111.0	2.73	2.34	1.99
251.8	281.8	1.06	1.13	1.17	251.8	1.72	2.39	3.22	131.2	2.75	2.35	1.99
292.1	322.1	1.10	1.17	1.22	292.1	1.82	2.55	3.43	151.4	2.78	2.38	2.02
332.4	362.4	1.09	1.15	1.20	332.4	1.78	2.46	3.27	171.6	2.82	2.41	2.05
372.7	402.7	1.08	1.15	1.20	372.7	1.82	2.51	3.33	191.8	2.84	2.43	2.07
413.0	443.0	1.12	1.19	1.24	413.0	1.88	2.58	3.40	212.0	2.85	2.45	2.09
453.3	483.3	1.15	1.23	1.29	453.3	1.86	2.50	3.26	232.2	2.87	2.48	2.11
493.6	523.6	1.20	1.28	1.35	493.6	1.96	2.64	3.43	252.4	2.93	2.53	2.16
533.9	563.9	1.14	1.21	1.27	533.9	1.96	2.61	3.35	272.7	2.97	2.57	2.20
574.2	604.2	1.15	1.20	1.24	574.2	2.00	2.65	3.39	292.9	2.99	2.59	2.22
614.4	644.4	1.06	1.10	1.14	614.4	2.04	2.68	3.42	313.1	2.98	2.60	2.24
654.7	684.7	1.03	1.07	1.11	654.7	2.02	2.60	3.29	333.3	2.99	2.62	2.27
695.0	725.0	1.15	1.15	1.16	695.0	2.11	2.71	3.41	353.5	2.99	2.64	2.29
735.3	765.3	1.25	1.23	1.24	735.3	2.18	2.75	3.41	373.7	2.99	2.66	2.32
775.6	805.6	1.43	1.41	1.41	775.6	2.25	2.81	3.45	393.9	3.00	2.67	2.34
815.9	845.9	1.61	1.55	1.53	815.9	2.33	2.90	3.54	434.3	3.01	2.72	2.41
856.2	886.2	1.84	1.77	1.73	856.2	2.34	2.89	3.50	454.5	3.00	2.72	2.42
896.5	926.5	2.11	2.02	1.95	896.5	2.40	2.98	3.60	494.9	2.96	2.69	2.42
916.6	946.6	2.21	2.12	2.05	916.6	2.44	3.01	3.65	515.1	2.95	2.69	2.43
956.9	986.9	2.55	2.46	2.37	956.9	2.43	2.98	3.60	555.5	2.89	2.64	2.40
977.1	1007.1	2.71	2.62	2.53	977.1	2.44	2.99	3.60	575.7	2.86	2.62	2.37
1017.3	1047.3	2.90	2.84	2.74	1017.3	2.48	3.02	3.63	616.1	2.79	2.56	2.34
1037.5	1067.5	3.07	3.02	2.92	1037.5	2.47	3.00	3.60	636.3	2.74	2.51	2.30
1077.8	1107.8	3.26	3.25	3.18	1077.8	2.44	2.95	3.54	676.7	2.67	2.44	2.23
1097.9	1127.9	3.26	3.27	3.23	1097.9	2.44	2.95	3.56	696.9	2.63	2.40	2.20
1138.2	1168.2	3.42	3.48	3.48	1138.2	2.46	2.98	3.59	737.3	2.50	2.27	2.08
1158.4	1188.4	3.43	3.47	3.49	1158.4	2.47	2.97	3.58	757.6	2.44	2.22	2.03
1198.7	1228.7	3.42	3.46	3.48	1198.7	2.56	3.05	3.65	798.0	2.34	2.12	1.94
1218.8	1248.8	3.52	3.55	3.57	1218.8	2.63	3.12	3.70	818.2	2.25	2.04	1.86
1259.1	1289.1	3.66	3.68	3.72	1259.1	2.76	3.20	3.75	858.6	2.11	1.90	1.73
1279.2	1309.2	3.59	3.60	3.62	1279.2	2.82	3.24	3.76	878.8	2.06	1.86	1.68
1319.5	1349.5	3.66	3.65	3.67	1319.5	3.00	3.38	3.90	919.2	1.91	1.71	1.55
1339.7	1369.7	3.75	3.74	3.76	1339.7	3.09	3.45	3.94	939.4	1.85	1.65	1.49
1380.0	1410.0	3.71	3.70	3.70	1380.0	3.23	3.52	3.97	979.8	1.74	1.55	1.39
1400.1	1430.1	3.73	3.71	3.71	1400.1	3.31	3.58	4.02	1000.0	1.46	1.47	1.55

REV. X2
TSM-2
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Page 4 of 5



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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	11	30	18	31	21	33	31	51	56	58
1	-	22	+0	33	10	34	30	38	61	40	54	53
2	>100	69	66	62	61	65	61	79	63	75	66	>80
3	>100	66	66	67	67	66	61	71	>80	70	73	80
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; -20.2 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	21	38	30	42	32	43	45	63	72	70
1	-	23	+0	33	11	37	31	43	46	46	55	59
2	88	59	56	52	49	56	51	65	55	67	60	80
3	>100	47	46	54	47	51	41	56	58	52	65	57
4	>100	>90	70	78	67	75	65	67	69	84	72	75
5	>100	75	81	69	58	63	57	62	55	65	74	71
6	>100	>90	>90	>90	81	79	78	77	75	78	84	>90
7	>100	87	86	>90	84	83	82	87	78	78	72	80
8	>100	>90	>90	>90	>90	>90	>90	>90	>90	>90	85	86
9	>100	>90	>90	>90	>90	>90	>90	>90	88	>90	87	86
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; -10.27 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.

REV. X2
 TSM-2
 100818

Page 5 of 5



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