

Frequency Mixer

TSM-5

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	+4	+7	+10			
5.0	35.0	7.34	6.85	6.66	10.1	40.1	19.52	20.00	19.23	10.1	40.1	0.71	0.43	0.23
10.0	40.0	7.18	6.72	6.54	50.7	80.7	18.61	17.02	18.18	50.7	80.7	0.64	0.42	0.22
50.7	80.7	7.34	7.03	6.72	91.4	121.4	14.99	16.58	22.27	91.4	121.4	0.63	0.35	0.23
91.4	121.4	7.44	7.03	6.68	132.0	162.0	18.17	22.47	20.91	132.0	162.0	0.68	0.34	0.19
132.0	162.0	7.32	6.96	6.66	172.7	202.7	16.77	23.87	23.12	172.7	202.7	0.63	0.36	0.20
172.7	202.7	7.33	6.96	6.67	213.3	243.3	21.86	21.81	25.67	213.3	243.3	0.63	0.33	0.18
213.3	243.3	7.23	6.87	6.65	254.0	284.0	20.58	22.25	20.72	254.0	284.0	0.61	0.35	0.19
254.0	284.0	7.23	6.94	6.67	294.6	324.6	25.39	20.89	20.66	294.6	324.6	0.58	0.35	0.20
294.6	324.6	7.22	6.90	6.63	335.3	365.3	17.28	21.72	21.49	335.3	365.3	0.58	0.31	0.20
335.3	365.3	7.22	6.94	6.68	375.9	405.9	17.86	17.17	19.38	375.9	405.9	0.62	0.34	0.20
375.9	405.9	7.22	6.95	6.68	416.6	446.6	13.26	15.37	18.70	416.6	446.6	0.57	0.34	0.22
416.6	446.6	7.15	6.93	6.67	477.5	507.5	12.80	13.50	15.17	477.5	507.5	0.54	0.32	0.22
477.5	507.5	7.28	6.98	6.72	518.2	548.2	16.55	20.50	23.12	518.2	548.2	0.59	0.35	0.23
518.2	548.2	7.29	6.99	6.76	579.1	609.1	14.95	25.49	18.93	579.1	609.1	0.65	0.43	0.28
579.1	609.1	7.34	7.02	6.73	619.8	649.8	11.73	12.93	20.21	619.8	649.8	0.75	0.49	0.34
619.8	649.8	7.42	7.11	6.84	680.7	710.7	10.38	11.06	11.77	680.7	710.7	0.89	0.59	0.40
680.7	710.7	7.59	7.26	6.99	721.4	751.4	9.33	10.62	11.59	721.4	751.4	1.02	0.67	0.46
721.4	751.4	7.69	7.42	7.10	782.4	812.4	11.09	13.62	18.12	782.4	812.4	1.18	0.82	0.58
782.4	812.4	7.85	7.49	7.16	823.0	853.0	10.76	17.79	20.30	823.0	853.0	1.26	0.91	0.67
823.0	853.0	8.40	7.77	7.35	884.0	914.0	8.12	14.39	21.16	884.0	914.0	1.31	1.06	0.79
884.0	914.0	8.40	7.77	7.35	924.6	954.6	7.44	12.43	17.59	924.6	954.6	1.29	1.09	0.84
924.6	954.6	8.66	7.90	7.34	985.6	1015.6	6.58	11.32	18.64	985.6	1015.6	1.18	1.11	0.90
985.6	1015.6	9.00	8.11	7.38	1026.2	1056.2	6.41	10.42	16.94	1026.2	1056.2	1.04	1.00	0.86
1026.2	1056.2	9.21	8.32	7.53	1087.2	1117.2	6.27	9.09	11.42	1087.2	1117.2	0.86	0.82	0.75
1087.2	1117.2	9.43	8.59	7.76	1127.8	1157.8	6.19	8.18	10.63	1127.8	1157.8	0.88	0.76	0.67
1127.8	1157.8	9.50	8.67	7.90	1188.8	1218.8	5.57	7.52	9.36	1188.8	1218.8	0.87	0.75	0.65
1188.8	1218.8	9.52	8.78	8.01	1229.5	1259.5	5.63	7.60	9.38	1229.5	1259.5	0.94	0.82	0.67
1229.5	1259.5	9.50	8.73	7.94	1290.4	1320.4	6.26	8.43	10.62	1290.4	1320.4	1.18	1.04	0.85
1290.4	1320.4	9.23	8.46	7.77	1331.1	1361.1	7.93	10.14	11.22	1331.1	1361.1	1.38	1.16	0.92
1331.1	1361.1	9.02	8.23	7.64	1392.0	1422.0	9.59	11.60	13.30	1392.0	1422.0	1.49	1.19	0.94
1392.0	1422.0	8.97	8.30	7.81	1432.7	1462.7	10.73	12.60	12.96	1432.7	1462.7	1.44	1.13	0.88
1432.7	1462.7	9.00	8.46	8.02	1493.6	1523.6	10.99	12.40	14.44	1493.6	1523.6	1.20	0.90	0.74
1493.6	1523.6	9.26	8.83	8.45	1534.3	1564.3	11.14	13.21	15.06	1534.3	1564.3	1.02	0.74	0.59
1534.3	1564.3	9.38	9.06	8.69	1595.3	1625.3	12.16	13.12	14.73	1595.3	1625.3	0.89	0.56	0.41
1595.3	1625.3	9.56	9.26	8.94	1635.9	1665.9	12.87	12.70	15.30	1635.9	1665.9	0.79	0.48	0.34
1635.9	1665.9	9.70	9.40	9.15	1696.9	1726.9	14.29	14.41	14.99	1696.9	1726.9	0.69	0.38	0.25
1696.9	1726.9	9.92	9.58	9.31	1737.5	1767.5	15.30	17.22	15.19	1737.5	1767.5	0.63	0.34	0.22
1737.5	1767.5	10.11	9.77	9.50	1798.5	1828.5	15.10	16.64	17.59	1798.5	1828.5	0.57	0.30	0.16
1798.5	1828.5	10.48	10.10	9.80	1839.1	1869.1	15.74	23.26	21.03	1839.1	1869.1	0.53	0.25	0.16
1839.1	1869.1	10.75	10.35	10.01	1900.1	1930.1	15.60	16.46	17.13	1900.1	1930.1	0.51	0.25	0.16
1900.1	1930.1	11.29	10.72	10.39										

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=750.1MHz (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)=1500.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+7			+7			+7
740.0	10.1	7.51	10.0	20.1	6.83	1000.0	500.1	9.41
721.3	28.8	7.36	30.2	40.3	6.69	979.8	520.3	9.41
702.6	47.5	7.28	50.4	60.5	6.72	959.6	540.5	9.29
683.8	66.3	7.23	70.6	80.7	6.79	939.4	560.7	9.25
665.1	85.0	7.19	90.8	100.9	6.74	919.2	580.9	9.17
646.4	103.7	7.13	111.0	121.1	6.77	899.0	601.1	9.16
627.7	122.4	7.06	131.2	141.3	6.71	878.8	621.3	9.14
609.0	141.1	7.03	151.4	161.5	6.76	858.6	641.5	9.18
590.3	159.8	6.97	171.6	181.7	6.77	838.4	661.7	9.33
571.5	178.6	7.01	191.8	201.9	6.81	818.2	681.9	9.27
552.8	197.3	7.00	212.0	222.1	6.76	798.0	702.1	9.29
534.1	216.0	7.01	232.2	242.3	6.75	777.8	722.3	9.23
515.4	234.7	6.97	252.4	262.5	6.81	757.6	742.5	9.19
496.7	253.4	7.01	272.7	282.8	6.82	737.3	762.8	9.16
477.9	272.2	6.99	292.9	303.0	6.81	717.1	783.0	8.98
459.2	290.9	7.02	313.1	323.2	6.81	696.9	803.2	8.83
440.5	309.6	7.08	333.3	343.4	6.83	676.7	823.4	8.70
421.8	328.3	7.07	353.5	363.6	6.83	656.5	843.6	8.69
403.1	347.0	7.05	373.7	383.8	6.90	636.3	863.8	8.69
384.4	365.7	7.08	393.9	404.0	6.90	616.1	884.0	8.65
365.6	384.5	7.14	434.3	444.4	6.94	575.7	924.4	8.66
346.9	403.2	7.10	454.5	464.6	6.94	555.5	944.6	8.78
328.2	421.9	7.13	494.9	505.0	6.94	515.1	985.0	8.82
309.5	440.6	7.11	515.1	525.2	6.92	494.9	1005.2	8.87
290.8	459.3	7.14	555.5	565.6	6.95	454.5	1045.6	9.00
272.1	478.0	7.14	575.7	585.8	7.02	434.3	1065.8	9.04
253.3	496.8	7.18	616.1	626.2	7.10	393.9	1106.2	9.11
234.6	515.5	7.14	636.3	646.4	7.25	373.7	1126.4	9.22
215.9	534.2	7.13	676.7	686.8	7.36	333.3	1166.8	9.28
197.2	552.9	7.13	696.9	707.0	7.37	313.1	1187.0	9.39
178.5	571.6	7.15	737.3	747.4	7.52	272.7	1227.4	9.39
159.7	590.4	7.18	757.6	767.7	7.44	252.4	1247.7	9.39
141.0	609.1	7.21	798.0	808.1	7.36	212.0	1288.1	9.22
122.3	627.8	7.26	818.2	828.3	7.31	191.8	1308.3	9.09
103.6	646.5	7.28	858.6	868.7	7.29	151.4	1348.7	8.89
84.9	665.2	7.34	878.8	888.9	7.26	131.2	1368.9	8.75
66.2	683.9	7.37	919.2	929.3	7.28	90.8	1409.3	8.68
47.4	702.7	7.41	939.4	949.5	7.27	70.6	1429.5	8.71
28.7	721.4	7.45	979.8	989.9	7.29	30.2	1469.9	8.70
10.0	740.1	7.51	1000.0	1010.1	7.25	10.0	1490.1	8.86

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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	64.17	64.43	64.40	68.87	63.03	67.20
10.0	62.80	62.97	62.64	64.30	63.27	62.24
50.7	63.70	64.59	64.71	67.29	68.57	67.40
91.4	58.42	59.66	60.21	63.01	64.16	62.96
132.0	55.59	56.79	57.83	61.46	60.19	59.32
172.7	52.84	54.18	55.16	58.68	57.30	57.32
213.3	51.24	52.54	53.55	55.83	55.69	55.74
254.0	49.66	51.01	52.10	53.99	54.60	54.80
294.6	48.36	49.78	50.74	52.63	53.06	53.17
335.3	47.24	48.58	49.57	51.71	52.20	52.15
375.9	46.07	47.45	48.48	50.87	51.41	51.20
416.6	45.45	46.77	47.73	49.97	50.17	49.69
477.5	44.20	45.65	46.86	48.57	48.61	48.37
518.2	43.00	44.30	45.46	48.65	48.18	47.46
579.1	42.10	43.33	44.40	48.11	47.05	45.68
619.8	41.81	43.34	44.56	47.86	46.61	45.05
680.7	40.82	42.20	43.40	46.58	45.46	44.18
721.4	40.22	41.46	42.46	45.14	43.85	42.88
782.4	39.58	40.97	42.17	43.17	41.44	40.21
884.0	38.75	40.33	41.43	41.26	38.91	37.65
924.6	38.09	39.60	40.67	40.65	38.26	36.67
985.6	37.04	38.54	39.73	39.70	37.63	35.64
1026.2	36.39	37.91	39.24	38.47	37.03	35.15
1087.2	35.67	37.17	38.44	36.73	36.29	35.07
1127.8	35.69	37.24	38.65	35.14	35.05	34.63
1188.8	35.77	37.61	39.27	33.03	32.75	32.57
1229.5	35.58	37.47	39.25	31.99	31.50	30.97
1290.4	35.52	37.61	39.57	30.90	30.05	28.94
1331.1	35.54	37.58	39.33	29.93	28.78	27.63
1392.0	35.88	37.70	39.12	28.46	27.24	26.26
1432.7	36.25	37.93	39.14	27.65	26.53	25.54
1493.6	37.74	39.14	39.69	26.58	25.59	24.74
1534.3	39.64	40.82	40.68	25.92	24.96	24.12
1595.3	43.08	43.18	41.70	25.13	24.27	23.51
1635.9	45.33	43.83	41.27	24.58	23.85	23.05
1696.9	48.20	43.40	40.18	24.15	23.43	22.66
1737.5	49.97	42.62	39.22	23.82	23.10	22.25
1798.5	53.20	42.09	38.44	23.39	22.87	21.99
1839.1	51.73	40.80	37.64	23.09	22.49	21.80
1900.1	50.62	40.61	37.21	22.67	22.32	21.62

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+4	+7	+10
10.1	40.1	51.58	49.63	47.35
50.7	80.7	42.65	42.66	42.84
91.4	121.4	38.09	38.28	38.30
132.0	162.0	35.30	35.78	35.89
172.7	202.7	33.92	34.04	34.33
213.3	243.3	32.65	32.95	33.08
254.0	284.0	31.88	32.26	32.38
294.6	324.6	31.68	32.03	32.29
335.3	365.3	31.40	31.95	32.31
375.9	405.9	31.32	32.08	32.64
416.6	446.6	31.15	31.94	32.38
477.5	507.5	29.94	30.52	30.93
518.2	548.2	28.69	29.28	29.92
579.1	609.1	27.80	28.56	29.30
619.8	649.8	26.90	27.58	28.02
680.7	710.7	25.28	25.41	25.35
721.4	751.4	23.80	23.72	23.49
782.4	812.4	22.19	21.77	21.63
823.0	853.0	21.43	21.03	20.92
884.0	914.0	21.12	20.73	20.53
924.6	954.6	21.07	20.70	20.47
985.6	1015.6	21.64	21.43	21.26
1026.2	1056.2	22.07	21.94	21.94
1087.2	1117.2	22.77	22.66	22.58
1127.8	1157.8	23.12	23.12	22.97
1188.8	1218.8	23.07	23.03	22.88
1229.5	1259.5	22.55	22.34	21.91
1290.4	1320.4	21.17	20.67	19.95
1331.1	1361.1	20.00	19.32	18.77
1392.0	1422.0	18.21	17.61	17.18
1432.7	1462.7	17.16	16.58	16.22
1493.6	1523.6	15.94	15.34	15.00
1534.3	1564.3	15.17	14.60	14.21
1595.3	1625.3	14.30	13.65	13.31
1635.9	1665.9	13.59	13.12	12.78
1696.9	1726.9	12.97	12.61	12.26
1737.5	1767.5	12.67	12.14	11.98
1798.5	1828.5	12.32	11.81	11.56
1839.1	1869.1	12.06	11.70	11.41
1900.1	1930.1	12.02	11.62	11.34

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1500.1MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+4	+7	+10		+4	+7	+10		+4	+7	+10
5.0	35.0	1.49	1.58	1.65	5.0	1.86	2.54	3.50	5.0	1.50	1.31	1.17
10.0	40.0	1.42	1.53	1.60	10.0	1.74	2.45	3.32	10.0	1.51	1.31	1.18
50.7	80.7	1.17	1.25	1.31	50.7	1.89	2.65	3.59	30.2	1.93	1.65	1.44
91.4	121.4	1.20	1.27	1.34	91.4	1.78	2.42	3.24	50.4	1.81	1.59	1.51
132.0	162.0	1.23	1.31	1.36	132.0	1.85	2.56	3.47	70.6	1.81	1.61	1.53
172.7	202.7	1.25	1.32	1.38	172.7	1.79	2.42	3.21	90.8	1.87	1.65	1.50
213.3	243.3	1.28	1.35	1.40	213.3	1.80	2.45	3.28	111.0	1.94	1.68	1.49
254.0	284.0	1.29	1.36	1.41	254.0	1.81	2.46	3.24	131.2	1.97	1.71	1.54
294.6	324.6	1.30	1.37	1.41	294.6	1.78	2.39	3.15	151.4	1.92	1.70	1.59
335.3	365.3	1.31	1.37	1.42	335.3	1.83	2.47	3.23	171.6	1.93	1.72	1.59
375.9	405.9	1.31	1.38	1.43	375.9	1.80	2.39	3.10	191.8	1.98	1.75	1.59
416.6	446.6	1.31	1.37	1.42	416.6	1.84	2.44	3.16	212.0	2.02	1.77	1.61
477.5	507.5	1.30	1.34	1.38	477.5	1.85	2.41	3.07	232.2	1.99	1.76	1.62
518.2	548.2	1.30	1.34	1.37	518.2	1.87	2.43	3.09	252.4	1.96	1.75	1.64
579.1	609.1	1.29	1.33	1.36	579.1	1.88	2.40	3.00	272.7	2.01	1.81	1.67
619.8	649.8	1.27	1.30	1.33	619.8	1.92	2.44	3.04	292.9	2.07	1.85	1.70
680.7	710.7	1.22	1.23	1.25	680.7	1.92	2.42	2.98	313.1	2.09	1.86	1.71
721.4	751.4	1.17	1.18	1.19	721.4	1.95	2.43	2.97	333.3	2.10	1.89	1.75
782.4	812.4	1.13	1.12	1.13	782.4	1.94	2.38	2.89	353.5	2.13	1.93	1.80
823.0	853.0	1.17	1.14	1.13	823.0	1.97	2.40	2.89	373.7	2.14	1.94	1.81
884.0	914.0	1.29	1.24	1.23	884.0	2.02	2.43	2.90	393.9	2.17	1.96	1.81
924.6	954.6	1.38	1.33	1.31	924.6	2.06	2.47	2.92	434.3	2.23	2.03	1.90
985.6	1015.6	1.53	1.47	1.43	985.6	2.09	2.49	2.92	454.5	2.23	2.03	1.91
1026.2	1056.2	1.62	1.55	1.49	1026.2	2.11	2.51	2.94	494.9	2.31	2.10	1.96
1087.2	1117.2	1.72	1.65	1.58	1087.2	2.12	2.50	2.92	515.1	2.29	2.09	1.96
1127.8	1157.8	1.75	1.68	1.61	1127.8	2.12	2.49	2.90	555.5	2.32	2.12	2.00
1188.8	1218.8	1.74	1.68	1.62	1188.8	2.11	2.46	2.86	575.7	2.36	2.16	2.03
1229.5	1259.5	1.71	1.65	1.59	1229.5	2.10	2.44	2.82	616.1	2.33	2.13	2.01
1290.4	1320.4	1.67	1.60	1.55	1290.4	2.06	2.37	2.75	636.3	2.35	2.17	2.06
1331.1	1361.1	1.63	1.57	1.53	1331.1	2.04	2.35	2.71	676.7	2.39	2.18	2.04
1392.0	1422.0	1.59	1.55	1.52	1392.0	2.04	2.34	2.71	696.9	2.41	2.20	2.07
1432.7	1462.7	1.57	1.54	1.52	1432.7	2.07	2.36	2.72	737.3	2.33	2.13	2.03
1493.6	1523.6	1.54	1.53	1.51	1493.6	2.13	2.40	2.75	757.6	2.37	2.17	2.04
1534.3	1564.3	1.53	1.53	1.53	1534.3	2.19	2.45	2.78	798.0	2.37	2.16	2.03
1595.3	1625.3	1.54	1.56	1.57	1595.3	2.26	2.49	2.80	818.2	2.31	2.11	2.00
1635.9	1665.9	1.57	1.60	1.62	1635.9	2.33	2.54	2.83	858.6	2.31	2.11	1.99
1696.9	1726.9	1.64	1.68	1.71	1696.9	2.41	2.60	2.88	878.8	2.31	2.09	1.95
1737.5	1767.5	1.72	1.76	1.80	1737.5	2.48	2.66	2.92	919.2	2.23	2.01	1.90
1798.5	1828.5	1.84	1.88	1.92	1798.5	2.57	2.72	2.97	939.4	2.16	1.96	1.85
1839.1	1869.1	1.91	1.96	2.00	1839.1	2.66	2.79	3.04	979.8	2.21	1.98	1.83
1900.1	1930.1	2.04	2.09	2.13	1900.1	2.74	2.86	3.09	1000.0	2.18	1.94	1.80

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	13	21	17	30	32	31	48	62	75	76
1	-	16	+0	31	11	32	40	36	39	50	57	76
2	>100	64	57	63	57	72	61	>79	73	>79	>79	>79
3	>100	72	62	70	59	68	60	77	>79	78	75	>79
4	>100	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
5	>100	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
6	>100	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
7	>100	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
8	>100	>79	>79	>79	>79	>79	>79	>79	>79	75	>79	>79
9	>100	>79	>79	>79	>79	>79	>79	>79	>79	>79	74	>79
10	>100	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	77
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions:

RF IN: 750.1 MHz; -14.00 dBm.

LO IN: 780.01 MHz; +7.00 dBm

IF OUT: 29.91 MHz; -21.49 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	22	32	27	41	39	43	68	76	66	>89
1	-	15	+0	33	12	34	40	41	43	55	60	71
2	88	49	46	52	47	56	53	69	64	76	76	79
3	>100	51	41	53	41	52	40	56	66	58	57	76
4	>100	87	83	64	71	67	67	72	77	>89	78	81
5	>100	74	86	83	61	69	58	69	59	>89	80	80
6	>100	>89	>89	>89	88	75	80	75	78	80	87	>89
7	>100	>89	>89	>89	>89	84	75	81	75	80	76	>89
8	>100	>89	>89	>89	>89	>89	>89	>89	86	87	>89	>89
9	>100	>89	>89	>89	>89	>89	>89	>89	>89	>89	82	>89
10	>100	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89	86
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions:

RF IN: 750.1 MHz; -4.00 dBm.

LO IN: 780.01 MHz; +7.00 dBm

IF OUT: 29.91 MHz; -11.49 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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