

Frequency Mixer

RMS-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
5.0	35.0	7.36	6.93	6.73	10.1	40.1	21.64	26.66	28.69	10.1	40.1	0.48	0.29	0.20
10.0	40.0	7.46	7.00	6.77	50.4	80.4	25.39	23.47	20.43	50.4	80.4	0.35	0.22	0.15
50.4	80.4	7.09	6.69	6.50	90.7	120.7	19.60	18.11	19.96	90.7	120.7	0.36	0.23	0.13
90.7	120.7	7.13	6.70	6.49	131.0	161.0	20.28	23.29	21.80	131.0	161.0	0.42	0.28	0.16
131.0	161.0	7.13	6.75	6.56	171.3	201.3	27.91	23.27	27.19	171.3	201.3	0.37	0.23	0.12
171.3	201.3	7.13	6.75	6.60	211.5	241.5	24.35	20.62	28.15	211.5	241.5	0.36	0.19	0.14
211.5	241.5	7.10	6.74	6.59	251.8	281.8	23.83	23.81	23.25	251.8	281.8	0.34	0.20	0.13
251.8	281.8	7.09	6.76	6.59	292.1	322.1	25.83	22.09	20.85	292.1	322.1	0.36	0.24	0.11
292.1	322.1	7.12	6.79	6.63	332.4	362.4	23.80	28.71	26.80	332.4	362.4	0.35	0.24	0.16
332.4	362.4	7.17	6.85	6.67	372.7	402.7	23.69	20.31	23.74	372.7	402.7	0.39	0.26	0.19
372.7	402.7	7.22	6.89	6.67	413.0	443.0	25.09	19.57	23.49	413.0	443.0	0.40	0.28	0.20
413.0	443.0	7.19	6.85	6.66	453.3	483.3	23.42	25.41	24.86	453.3	483.3	0.42	0.28	0.18
453.3	483.3	7.24	6.94	6.71	493.6	523.6	22.11	24.21	23.45	493.6	523.6	0.47	0.33	0.24
493.6	523.6	7.29	6.92	6.73	533.9	563.9	21.07	23.90	21.42	533.9	563.9	0.46	0.32	0.24
533.9	563.9	7.33	6.95	6.71	574.2	604.2	23.18	22.37	24.80	574.2	604.2	0.49	0.37	0.25
574.2	604.2	7.40	7.00	6.79	614.4	644.4	29.05	23.55	23.90	614.4	644.4	0.51	0.39	0.28
614.4	644.4	7.43	7.07	6.82	654.7	684.7	29.70	21.83	30.67	654.7	684.7	0.60	0.48	0.36
654.7	684.7	7.48	7.15	6.87	695.0	725.0	22.00	22.66	23.31	695.0	725.0	0.65	0.48	0.38
695.0	725.0	7.55	7.14	6.87	735.3	765.3	20.92	20.14	21.40	735.3	765.3	0.68	0.55	0.47
735.3	765.3	7.59	7.15	6.91	775.6	805.6	19.04	23.66	25.50	775.6	805.6	0.70	0.58	0.49
775.6	805.6	7.68	7.19	6.88	815.9	845.9	25.61	20.90	21.63	815.9	845.9	0.87	0.67	0.60
815.9	845.9	7.69	7.19	6.87	856.2	886.2	25.61	23.23	19.78	856.2	886.2	0.81	0.69	0.63
856.2	886.2	7.81	7.26	6.93	896.5	926.5	21.08	19.67	22.24	896.5	926.5	0.74	0.63	0.59
896.5	926.5	7.84	7.30	6.96	916.6	946.6	23.46	25.24	21.83	916.6	946.6	0.84	0.73	0.68
916.6	946.6	7.96	7.43	7.04	956.9	986.9	24.63	21.89	20.62	956.9	986.9	0.71	0.65	0.58
956.9	986.9	8.13	7.60	7.23	977.1	1007.1	22.33	25.00	23.44	977.1	1007.1	0.80	0.71	0.69
977.1	1007.1	8.19	7.65	7.28	1017.3	1047.3	25.45	23.09	24.33	1017.3	1047.3	0.73	0.65	0.68
1037.5	1067.5	8.35	7.94	7.61	1037.5	1067.5	22.84	20.19	20.83	1037.5	1067.5	0.64	0.56	0.57
1077.8	1107.8	8.49	8.13	7.82	1077.8	1107.8	20.06	22.22	27.71	1077.8	1107.8	0.65	0.53	0.57
1097.9	1127.9	8.55	8.21	7.93	1097.9	1127.9	21.11	21.10	28.07	1097.9	1127.9	0.64	0.51	0.56
1138.2	1168.2	8.67	8.37	8.17	1138.2	1168.2	24.66	20.48	20.93	1138.2	1168.2	0.66	0.53	0.52
1158.4	1188.4	8.74	8.45	8.25	1158.4	1188.4	24.24	21.85	21.95	1158.4	1188.4	0.69	0.51	0.52
1198.7	1228.7	8.89	8.61	8.48	1198.7	1228.7	20.54	22.33	27.15	1198.7	1228.7	0.67	0.53	0.52
1218.8	1248.8	8.95	8.75	8.56	1218.8	1248.8	21.30	25.72	27.08	1218.8	1248.8	0.73	0.56	0.56
1259.1	1289.1	9.20	8.94	8.87	1259.1	1289.1	20.39	21.30	28.12	1259.1	1289.1	0.70	0.56	0.61
1279.2	1309.2	9.34	9.10	9.02	1279.2	1309.2	23.84	25.30	21.42	1279.2	1309.2	0.72	0.57	0.58
1319.5	1349.5	9.64	9.42	9.36	1319.5	1349.5	23.23	21.77	17.91	1319.5	1349.5	0.71	0.55	0.63
1339.7	1369.7	9.78	9.58	9.50	1339.7	1369.7	27.68	22.47	21.21	1339.7	1369.7	0.76	0.64	0.71
1380.0	1410.0	10.17	9.96	9.90	1380.0	1410.0	21.06	21.09	21.59	1380.0	1410.0	0.70	0.62	0.68
1400.1	1430.1	10.33	10.15	10.08	1400.1	1430.1	23.85	22.21	18.84	1400.1	1430.1	0.72	0.52	0.72



Frequency Mixer

RMS-2+

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=510.1MHz (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)=1010.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+7			+7			+7
500.0	10.1	6.91	10.0	20.1	6.68	1000.0	10.1	7.98
487.4	22.7	6.90	30.0	40.1	6.59	979.8	30.3	7.95
474.9	35.2	6.85	50.0	60.1	6.61	959.6	50.5	7.88
462.3	47.8	6.83	70.0	80.1	6.63	939.4	70.7	7.83
449.7	60.4	6.83	90.0	100.1	6.65	919.2	90.9	7.82
437.2	72.9	6.80	110.0	120.1	6.66	899.0	111.1	7.76
424.6	85.5	6.77	130.0	140.1	6.63	878.8	131.3	7.69
412.1	98.0	6.73	150.0	160.1	6.66	858.6	151.5	7.69
399.5	110.6	6.72	170.0	180.1	6.68	838.4	171.7	7.66
386.9	123.2	6.72	190.0	200.1	6.74	818.2	191.9	7.63
374.4	135.7	6.68	210.0	220.1	6.72	798.0	212.1	7.59
361.8	148.3	6.69	230.0	240.1	6.72	777.8	232.3	7.55
349.2	160.9	6.68	250.0	260.1	6.77	757.6	252.5	7.40
336.7	173.4	6.67	270.0	280.1	6.80	737.3	272.8	7.51
324.1	186.0	6.68	290.0	300.1	6.82	717.1	293.0	7.49
311.5	198.6	6.68	310.0	320.1	6.83	696.9	313.2	7.42
299.0	211.1	6.67	330.0	340.1	6.89	676.7	333.4	7.41
286.4	223.7	6.67	350.0	360.1	6.86	656.5	353.6	7.39
273.8	236.3	6.68	370.0	380.1	6.93	636.3	373.8	7.37
261.3	248.8	6.69	390.0	400.1	6.97	616.1	394.0	7.37
248.7	261.4	6.69	430.0	440.1	6.97	575.7	434.4	7.30
236.2	273.9	6.69	450.0	460.1	7.01	555.5	454.6	7.29
223.6	286.5	6.70	490.0	500.1	7.06	515.1	495.0	7.25
211.0	299.1	6.71	510.0	520.1	7.07	494.9	515.2	7.23
198.5	311.6	6.71	550.0	560.1	7.12	454.5	555.6	7.22
185.9	324.2	6.70	570.0	580.1	7.17	434.3	575.8	7.26
173.3	336.8	6.73	610.0	620.1	7.20	393.9	616.2	7.22
160.8	349.3	6.75	630.0	640.1	7.17	373.7	636.4	7.23
148.2	361.9	6.75	670.0	680.1	7.20	333.3	676.8	7.24
135.6	374.5	6.76	690.0	700.1	7.17	313.1	697.0	7.23
123.1	387.0	6.77	730.0	740.1	7.19	272.7	737.4	7.22
110.5	399.6	6.77	750.0	760.1	7.21	252.4	757.7	7.26
97.9	412.2	6.78	790.0	800.1	7.23	212.0	798.1	7.27
85.4	424.7	6.80	810.0	820.1	7.22	191.8	818.3	7.26
72.8	437.3	6.81	850.0	860.1	7.31	151.4	858.7	7.36
60.3	449.8	6.82	870.0	880.1	7.36	131.2	878.9	7.37
47.7	462.4	6.82	910.0	920.1	7.46	90.8	919.3	7.44
35.1	475.0	6.85	930.0	940.1	7.54	70.6	939.5	7.51
22.6	487.5	6.87	970.0	980.1	7.69	30.2	979.9	7.67
10.0	500.1	6.94	990.0	1000.1	7.73	10.0	1000.1	7.79

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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	63.51	67.42	71.51	54.09	57.23	60.91
10.0	62.56	66.49	69.85	53.93	56.87	60.05
50.4	59.28	59.20	59.09	54.44	54.14	53.51
90.7	54.25	54.10	54.04	49.57	48.80	48.38
131.0	51.04	51.00	51.02	46.09	45.63	45.61
171.3	48.80	48.89	48.94	43.61	43.65	43.67
211.5	47.05	47.20	47.25	41.98	42.13	42.14
251.8	45.69	45.88	45.96	40.99	41.10	40.91
292.1	44.47	44.68	44.77	40.17	40.15	39.82
332.4	43.48	43.70	43.83	39.50	39.24	38.71
372.7	42.63	42.86	42.95	38.80	38.24	37.52
413.0	41.72	41.99	42.09	38.08	37.29	36.43
453.3	40.74	41.03	41.16	37.11	36.20	35.26
493.6	39.60	39.95	40.12	36.10	35.08	34.22
533.9	38.89	39.31	39.53	34.83	33.57	32.67
574.2	38.15	38.56	38.78	33.75	32.43	31.40
614.4	37.52	37.89	38.06	32.53	31.31	30.25
654.7	36.86	37.12	37.19	31.18	30.15	29.20
695.0	36.26	36.44	36.42	29.79	28.86	28.05
735.3	35.41	35.50	35.41	28.23	27.28	26.49
775.6	34.86	34.91	34.77	27.03	26.01	25.23
815.9	34.06	34.01	33.81	25.85	24.74	23.95
856.2	33.44	33.42	33.24	24.85	23.67	22.81
896.5	32.89	32.92	32.74	23.88	22.66	21.77
916.6	32.64	32.74	32.67	23.31	22.09	21.17
956.9	32.31	32.56	32.60	22.52	21.42	20.46
977.1	32.07	32.31	32.36	22.10	21.07	20.11
1037.5	31.83	32.35	32.77	20.65	19.84	18.94
1077.8	32.02	32.72	33.34	19.85	19.16	18.34
1097.9	32.27	33.12	33.91	19.28	18.60	17.78
1138.2	32.64	33.70	34.68	18.38	17.76	17.00
1158.4	32.95	34.04	34.93	17.94	17.34	16.60
1198.7	34.14	35.39	36.07	17.00	16.42	15.70
1218.8	34.63	35.92	36.45	16.58	16.03	15.32
1259.1	37.00	37.73	36.82	15.68	15.15	14.47
1279.2	38.47	38.28	36.37	15.29	14.75	14.07
1319.5	42.89	37.87	34.49	14.48	13.97	13.33
1339.7	43.87	36.90	33.56	14.13	13.62	13.00
1380.0	42.09	34.39	31.28	13.38	12.91	12.32
1400.1	39.81	33.26	30.36	13.03	12.59	12.02

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+4	+7	+10
10.1	40.1	38.70	36.19	40.37
50.4	80.4	38.62	37.87	38.62
90.7	120.7	33.40	33.56	33.56
131.0	161.0	30.83	30.71	30.94
171.3	201.3	28.86	29.04	29.15
211.5	241.5	27.62	27.72	27.81
251.8	281.8	26.72	26.93	27.03
292.1	322.1	26.15	26.34	26.48
332.4	362.4	25.61	25.89	26.05
372.7	402.7	25.19	25.46	25.65
413.0	443.0	24.97	25.26	25.54
453.3	483.3	24.97	25.37	25.72
493.6	523.6	24.94	25.45	25.85
533.9	563.9	24.76	25.27	25.61
574.2	604.2	23.73	24.04	24.19
614.4	644.4	22.29	22.38	22.43
654.7	684.7	20.59	20.57	20.51
695.0	725.0	19.19	19.10	19.01
735.3	765.3	18.03	17.91	17.80
775.6	805.6	17.06	16.96	16.89
815.9	845.9	16.40	16.34	16.34
856.2	886.2	15.86	15.86	15.91
896.5	926.5	15.42	15.50	15.64
916.6	946.6	15.22	15.33	15.51
956.9	986.9	14.80	14.95	15.17
977.1	1007.1	14.62	14.79	15.02
1017.3	1047.3	14.36	14.59	14.86
1037.5	1067.5	14.23	14.49	14.77
1077.8	1107.8	14.05	14.34	14.63
1097.9	1127.9	13.91	14.21	14.51
1138.2	1168.2	13.61	13.91	14.17
1158.4	1188.4	13.46	13.75	13.98
1198.7	1228.7	13.15	13.38	13.55
1218.8	1248.8	13.03	13.24	13.38
1259.1	1289.1	12.65	12.78	12.85
1279.2	1309.2	12.45	12.56	12.60
1319.5	1349.5	12.04	12.08	12.05
1339.7	1369.7	11.83	11.84	11.79
1380.0	1410.0	11.35	11.32	11.23
1400.1	1430.1	11.08	11.03	10.92

Frequency Mixer

RMS-2+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)		
		@LO (dBm)		
		+4	+7	+10
5.0	35.0	1.30	1.35	1.38
10.0	40.0	1.19	1.25	1.29
50.4	80.4	1.18	1.26	1.33
90.7	120.7	1.18	1.26	1.33
131.0	161.0	1.19	1.27	1.32
171.3	201.3	1.20	1.28	1.33
211.5	241.5	1.21	1.28	1.33
251.8	281.8	1.21	1.28	1.33
292.1	322.1	1.22	1.29	1.34
332.4	362.4	1.22	1.29	1.34
372.7	402.7	1.23	1.30	1.35
413.0	443.0	1.24	1.31	1.37
453.3	483.3	1.26	1.33	1.38
493.6	523.6	1.28	1.35	1.41
533.9	563.9	1.31	1.38	1.44
574.2	604.2	1.33	1.40	1.46
614.4	644.4	1.36	1.43	1.49
654.7	684.7	1.39	1.46	1.52
695.0	725.0	1.44	1.50	1.57
735.3	765.3	1.49	1.56	1.62
775.6	805.6	1.56	1.63	1.70
815.9	845.9	1.66	1.73	1.80
856.2	886.2	1.77	1.84	1.91
896.5	926.5	1.91	1.98	2.05
916.6	946.6	1.97	2.04	2.10
956.9	986.9	2.12	2.18	2.25
977.1	1007.1	2.21	2.27	2.34
1017.3	1047.3	2.38	2.44	2.51
1037.5	1067.5	2.48	2.54	2.60
1077.8	1107.8	2.65	2.72	2.78
1097.9	1127.9	2.73	2.81	2.88
1138.2	1168.2	2.89	2.97	3.04
1158.4	1188.4	2.97	3.05	3.12
1198.7	1228.7	3.13	3.20	3.27
1218.8	1248.8	3.21	3.29	3.35
1259.1	1289.1	3.34	3.42	3.48
1279.2	1309.2	3.43	3.50	3.56
1319.5	1349.5	3.51	3.57	3.62
1339.7	1369.7	3.57	3.62	3.68
1380.0	1410.0	3.68	3.73	3.78
1400.1	1430.1	3.72	3.76	3.80

LO (MHz)	LO VSWR (:1)		
	@LO (dBm)		
	+4	+7	+10
5.0	1.72	2.44	3.27
10.0	1.68	2.37	3.24
50.4	1.85	2.65	3.70
90.7	1.85	2.63	3.65
131.0	1.83	2.63	3.63
171.3	1.84	2.62	3.60
211.5	1.85	2.60	3.56
251.8	1.87	2.64	3.60
292.1	1.89	2.65	3.60
332.4	1.92	2.70	3.65
372.7	1.99	2.78	3.74
413.0	2.00	2.78	3.73
453.3	2.07	2.86	3.81
493.6	2.05	2.80	3.70
533.9	2.09	2.85	3.76
574.2	2.13	2.87	3.76
614.4	2.20	2.95	3.85
654.7	2.28	3.04	3.93
695.0	2.33	3.08	3.95
735.3	2.41	3.16	4.03
775.6	2.43	3.14	3.97
815.9	2.48	3.19	4.00
856.2	2.54	3.22	4.00
896.5	2.58	3.26	4.01
916.6	2.67	3.37	4.14
956.9	2.69	3.37	4.11
977.1	2.70	3.37	4.09
1017.3	2.78	3.44	4.17
1037.5	2.74	3.38	4.09
1077.8	2.73	3.34	4.01
1097.9	2.78	3.39	4.06
1138.2	2.80	3.39	4.03
1158.4	2.81	3.37	3.99
1198.7	2.80	3.34	3.91
1218.8	2.78	3.29	3.85
1259.1	2.80	3.27	3.79
1279.2	2.81	3.26	3.76
1319.5	2.80	3.21	3.68
1339.7	2.81	3.21	3.65
1380.0	2.80	3.15	3.55
1400.1	2.78	3.12	3.52

IF (OUT) (MHz)	IF VSWR @LO=1010.1MHz (:1)		
	@LO (dBm)		
	+4	+7	+10
5.0	1.40	1.22	1.11
10.0	1.41	1.22	1.11
30.3	2.12	1.80	1.54
50.5	2.09	1.77	1.51
70.7	2.08	1.77	1.53
90.9	2.11	1.77	1.52
111.1	2.13	1.79	1.54
131.3	2.09	1.77	1.52
151.5	2.08	1.75	1.52
171.7	2.10	1.77	1.52
191.9	2.09	1.76	1.53
212.1	2.09	1.76	1.51
232.3	2.07	1.74	1.50
252.5	2.01	1.70	1.47
272.8	1.99	1.69	1.46
293.0	1.99	1.68	1.47
313.2	1.92	1.63	1.43
333.4	1.90	1.62	1.43
353.6	1.89	1.62	1.44
373.8	1.87	1.61	1.44
394.0	1.88	1.63	1.46
434.4	1.83	1.59	1.45
454.6	1.82	1.60	1.47
495.0	1.80	1.59	1.47
515.2	1.80	1.59	1.48
555.6	1.77	1.57	1.48
575.8	1.77	1.59	1.50
616.2	1.74	1.57	1.49
636.4	1.73	1.57	1.51
676.8	1.70	1.56	1.50
697.0	1.69	1.56	1.51
737.4	1.65	1.53	1.50
757.7	1.64	1.52	1.50
798.1	1.59	1.49	1.48
818.3	1.57	1.48	1.48
858.7	1.54	1.46	1.47
878.9	1.51	1.44	1.45
919.3	1.47	1.41	1.43
939.5	1.46	1.40	1.42
979.9	1.44	1.38	1.41
1000.1	1.41	1.36	1.40

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	6	22	11	37	21	29	21	31	33	38
1	-	18	+0	32	13	37	25	38	38	38	49	38
2	111	66	46	67	48	66	49	75	56	67	60	61
3	128	73	75	73	65	71	62	75	78	74	67	77
4	117	96	104	95	91	81	87	92	97	93	88	92
5	116	101	106	103	96	90	84	103	102	96	101	102
6	108	114	110	98	101	102	93	94	96	99	117	107
7	112	109	99	111	102	101	103	94	85	98	106	98
8	113	118	103	117	110	116	107	104	94	92	98	100
9	112	97	103	110	99	105	105	112	107	94	98	99
10	119	117	103	102	106	104	108	105	103	95	86	98
	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; -20.95 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	15	33	23	50	32	40	33	44	49	57
1	-	19	+0	30	13	40	26	42	37	42	53	44
2	96	56	38	53	38	58	41	62	53	69	51	56
3	113	54	56	60	53	57	46	59	60	57	54	56
4	125	80	70	78	62	75	67	70	58	90	63	71
5	117	80	79	76	60	67	58	67	57	69	64	73
6	133	88	85	90	78	79	73	75	69	77	73	81
7	114	85	85	88	82	86	77	89	82	90	96	92
8	111	103	114	104	99	102	98	93	102	100	93	91
9	120	124	106	116	108	103	101	101	100	99	92	96
10	114	106	114	114	115	105	108	120	101	101	100	97
	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; -11.13 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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