

Frequency Mixer

RMS-1W+

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
2.0	32.0	6.44	6.15	6.06	10.1	40.1	19.25	24.96	18.95	10.1	40.1	1.01	0.77	0.60
4.0	34.0	6.24	5.93	5.84	49.5	79.5	17.30	15.46	19.71	49.5	79.5	1.09	0.79	0.55
5.0	35.0	6.20	5.89	5.82	88.8	118.8	16.29	17.63	20.49	88.8	118.8	1.10	0.86	0.53
10.0	40.0	6.24	5.90	5.79	128.2	158.2	17.55	17.84	19.80	128.2	158.2	1.13	0.83	0.60
49.5	79.5	6.12	5.79	5.62	167.6	197.6	15.19	17.31	22.10	167.6	197.6	1.12	0.82	0.57
88.8	118.8	6.16	5.80	5.69	206.9	236.9	16.28	17.74	20.92	206.9	236.9	1.03	0.67	0.61
128.2	158.2	6.15	5.87	5.72	246.3	276.3	17.09	27.00	18.63	246.3	276.3	1.09	0.81	0.54
206.9	236.9	6.14	5.88	5.77	285.7	315.7	16.13	24.42	31.41	285.7	315.7	1.00	0.77	0.56
246.3	276.3	6.14	5.91	5.75	325.0	355.0	19.17	25.55	22.75	325.0	355.0	1.06	0.76	0.56
285.7	315.7	6.19	5.92	5.78	364.4	394.4	20.60	16.54	19.95	364.4	394.4	1.07	0.78	0.61
325.0	355.0	6.21	5.94	5.81	403.8	433.8	17.10	16.88	20.45	403.8	433.8	1.04	0.75	0.57
364.4	394.4	6.23	5.94	5.82	423.4	453.4	19.32	17.52	21.17	423.4	453.4	0.98	0.76	0.53
403.8	433.8	6.26	6.03	5.83	462.8	492.8	18.10	18.85	22.08	462.8	492.8	1.04	0.80	0.56
423.4	453.4	6.30	6.03	5.85	482.5	512.5	18.94	23.01	22.45	482.5	512.5	0.99	0.80	0.65
462.8	492.8	6.44	6.12	5.96	521.8	551.8	18.24	22.18	21.28	521.8	551.8	0.98	0.72	0.60
482.5	512.5	6.42	6.17	5.99	541.5	571.5	18.72	18.11	21.26	541.5	571.5	1.11	0.77	0.69
521.8	551.8	6.44	6.14	5.98	580.9	610.9	17.37	19.88	20.29	580.9	610.9	1.15	0.79	0.65
541.5	571.5	6.46	6.20	6.05	600.6	630.6	15.19	18.39	25.05	600.6	630.6	1.18	0.79	0.57
580.9	610.9	6.53	6.26	6.09	639.9	669.9	13.12	15.11	17.90	639.9	669.9	1.45	1.06	0.78
600.6	630.6	6.57	6.32	6.15	659.6	689.6	11.83	14.93	18.29	659.6	689.6	1.33	1.06	0.77
659.6	689.6	6.78	6.51	6.36	699.0	729.0	8.63	11.73	16.06	699.0	729.0	1.48	1.07	0.80
699.0	729.0	6.98	6.67	6.49	718.7	748.7	7.78	10.46	14.97	718.7	748.7	1.45	1.09	0.91
718.7	748.7	7.07	6.77	6.58	758.0	788.0	6.08	8.15	11.82	758.0	788.0	1.58	1.31	0.98
758.0	788.0	7.24	6.96	6.70	777.7	807.7	5.61	7.49	10.62	777.7	807.7	1.61	1.36	0.99
777.7	807.7	7.35	7.04	6.80	817.1	847.1	5.07	6.58	9.20	817.1	847.1	1.83	1.53	1.31
817.1	847.1	7.52	7.16	6.90	836.8	866.8	5.12	6.75	9.36	836.8	866.8	1.74	1.43	1.25
836.8	866.8	7.59	7.20	6.97	876.1	906.1	5.72	7.54	10.23	876.1	906.1	1.85	1.51	1.36
876.1	906.1	7.75	7.30	7.03	895.8	925.8	6.34	8.79	11.32	895.8	925.8	1.83	1.67	1.31
895.8	925.8	7.76	7.31	7.02	935.2	965.2	8.66	11.22	15.65	935.2	965.2	1.83	1.72	1.44
935.2	965.2	8.03	7.51	7.15	954.9	984.9	10.40	13.22	17.25	954.9	984.9	1.68	1.59	1.25
954.9	984.9	8.18	7.61	7.26	994.2	1024.2	12.85	19.20	18.26	994.2	1024.2	1.73	1.52	1.33
994.2	1024.2	8.37	7.81	7.48	1013.9	1043.9	14.10	15.20	19.19	1013.9	1043.9	1.76	1.47	1.32
1013.9	1043.9	8.55	7.96	7.62	1053.3	1083.3	10.69	11.78	14.62	1053.3	1083.3	1.54	1.31	1.11
1053.3	1083.3	8.81	8.25	7.92	1073.0	1103.0	10.15	11.66	12.17	1073.0	1103.0	1.54	1.21	1.01
1073.0	1103.0	8.96	8.37	8.05	1112.3	1142.3	9.24	10.54	11.80	1112.3	1142.3	1.35	1.05	0.94
1132.0	1162.0	9.50	8.93	8.60	1132.0	1162.0	8.91	10.42	11.38	1132.0	1162.0	1.24	1.00	0.93
1171.4	1201.4	9.91	9.29	8.95	1171.4	1201.4	8.73	10.70	11.93	1171.4	1201.4	1.09	0.98	0.69
1191.1	1221.1	10.11	9.48	9.12	1191.1	1221.1	8.75	10.75	11.66	1191.1	1221.1	1.21	0.98	0.67
1230.4	1260.4	10.64	9.94	9.56	1230.4	1260.4	8.70	11.21	12.53	1230.4	1260.4	1.03	0.85	0.71
1250.1	1280.1	10.76	10.12	9.74	1250.1	1280.1	8.22	10.24	13.05	1250.1	1280.1	1.32	1.00	0.87

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Frequency Mixer

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=375.1MHz (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)=750.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+7			+7			+7
365.0	10.1	6.16	10.0	20.1	5.73	740.0	10.1	7.08
355.9	19.2	6.12	28.7	38.8	5.52	721.3	28.8	7.08
346.8	28.3	6.09	47.4	57.5	5.54	702.6	47.5	7.00
337.7	37.4	6.04	66.2	76.3	5.42	683.8	66.3	6.94
328.6	46.5	6.01	84.9	95.0	5.46	665.1	85.0	6.89
319.5	55.6	5.96	103.6	113.7	5.55	646.4	103.7	6.86
310.4	64.7	5.94	122.3	132.4	5.57	627.7	122.4	6.85
301.3	73.8	5.91	141.0	151.1	5.61	609.0	141.1	6.80
292.2	82.9	5.88	159.7	169.8	5.58	590.3	159.8	6.76
283.1	92.0	5.88	178.5	188.6	5.63	571.5	178.6	6.73
274.0	101.1	5.87	197.2	207.3	5.64	552.8	197.3	6.75
264.9	110.2	5.87	215.9	226.0	5.57	534.1	216.0	6.73
255.8	119.3	5.86	234.6	244.7	5.59	515.4	234.7	6.72
246.7	128.4	5.84	253.3	263.4	5.72	496.7	253.4	6.70
237.6	137.5	5.83	272.1	282.2	5.74	477.9	272.2	6.66
228.5	146.6	5.82	290.8	300.9	5.73	459.2	290.9	6.69
219.4	155.7	5.82	309.5	319.6	5.74	440.5	309.6	6.77
210.3	164.8	5.82	328.2	338.3	5.79	421.8	328.3	6.76
201.2	173.9	5.82	346.9	357.0	5.79	403.1	347.0	6.71
192.1	183.0	5.82	365.6	375.7	5.84	384.4	365.7	6.71
182.9	192.2	5.83	384.4	394.5	5.78	365.6	384.5	6.77
173.8	201.3	5.85	403.1	413.2	5.78	346.9	403.2	6.78
164.7	210.4	5.87	421.8	431.9	5.85	328.2	421.9	6.79
155.6	219.5	5.86	440.5	450.6	5.92	309.5	440.6	6.78
146.5	228.6	5.86	459.2	469.3	5.87	290.8	459.3	6.77
137.4	237.7	5.85	477.9	488.0	5.87	272.1	478.0	6.79
128.3	246.8	5.85	496.7	506.8	5.89	253.3	496.8	6.80
119.2	255.9	5.85	515.4	525.5	5.97	234.6	515.5	6.77
110.1	265.0	5.86	534.1	544.2	5.98	215.9	534.2	6.77
101.0	274.1	5.89	552.8	562.9	6.01	197.2	552.9	6.75
91.9	283.2	5.89	571.5	581.6	6.02	178.5	571.6	6.76
82.8	292.3	5.90	590.3	600.4	6.07	159.7	590.4	6.79
73.7	301.4	5.90	609.0	619.1	6.11	141.0	609.1	6.80
64.6	310.5	5.90	627.7	637.8	6.07	122.3	627.8	6.78
55.5	319.6	5.89	646.4	656.5	6.03	103.6	646.5	6.78
46.4	328.7	5.89	665.1	675.2	6.03	84.9	665.2	6.82
37.3	337.8	5.89	683.8	693.9	5.97	66.2	683.9	6.81
28.2	346.9	5.88	702.6	712.7	6.02	47.4	702.7	6.81
19.1	356.0	5.86	721.3	731.4	5.98	28.7	721.4	6.81
10.0	365.1	6.10	740.0	750.1	5.96	10.0	740.1	7.00

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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
2.0	76.36	77.45	78.57	61.46	62.05	62.37
4.0	76.01	77.30	78.72	61.31	61.60	61.92
5.0	75.18	76.89	78.20	61.28	61.49	61.60
10.0	71.36	74.36	77.17	60.46	60.26	59.90
49.5	57.03	58.18	57.92	53.63	52.28	50.85
88.8	51.71	52.20	52.73	50.02	47.96	46.08
128.2	48.06	48.60	49.08	47.75	45.16	43.54
206.9	43.69	44.24	44.56	44.43	42.18	40.46
246.3	42.11	42.60	42.85	42.85	40.76	39.17
285.7	40.79	41.22	41.48	41.21	39.57	38.14
325.0	39.58	39.99	40.20	39.51	38.37	37.09
364.4	38.52	38.87	39.06	37.79	36.96	36.03
403.8	37.53	37.87	38.14	36.59	35.97	35.08
423.4	37.22	37.53	37.79	35.63	35.23	34.47
462.8	36.60	36.92	37.08	34.30	34.29	33.88
482.5	36.27	36.61	36.76	33.70	33.79	33.56
521.8	35.50	35.81	35.89	32.56	32.70	32.57
541.5	35.11	35.40	35.48	32.05	32.21	32.11
580.9	34.43	34.71	34.83	31.25	31.54	31.46
600.6	34.17	34.45	34.58	30.75	31.07	30.94
659.6	33.47	33.89	34.13	29.33	30.16	30.24
699.0	33.01	33.54	33.87	28.50	29.66	30.03
718.7	32.78	33.36	33.75	27.88	29.10	29.76
758.0	32.65	33.29	33.73	27.23	28.24	29.17
777.7	32.50	33.18	33.66	26.98	27.86	28.73
817.1	32.25	33.01	33.53	26.54	27.23	27.86
836.8	32.14	32.93	33.47	26.34	27.01	27.59
876.1	31.65	32.37	32.85	26.21	26.77	27.21
895.8	31.27	31.93	32.36	25.92	26.46	26.87
935.2	30.68	31.12	31.38	25.77	26.23	26.54
954.9	30.26	30.61	30.82	25.76	26.19	26.47
994.2	29.54	29.66	29.71	25.87	26.33	26.51
1013.9	29.26	29.27	29.27	25.98	26.48	26.58
1053.3	28.90	28.70	28.55	26.57	27.53	27.61
1073.0	28.78	28.48	28.25	26.89	28.21	28.39
1132.0	28.75	28.32	27.98	26.54	29.09	30.65
1171.4	28.54	28.09	27.74	25.75	28.45	30.96
1191.1	28.28	27.86	27.54	25.61	28.37	31.05
1230.4	27.88	27.50	27.20	25.23	28.08	31.24
1250.1	27.52	27.20	26.93	25.79	28.77	32.06

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+4	+7	+10
10.1	40.1	55.52	34.32	43.20
49.5	79.5	34.35	34.32	35.31
88.8	118.8	30.01	30.46	29.82
128.2	158.2	27.59	27.92	27.70
167.6	197.6	26.08	26.23	26.26
206.9	236.9	25.17	25.34	25.50
246.3	276.3	24.52	24.66	24.83
285.7	315.7	24.58	24.79	24.80
325.0	355.0	24.57	24.91	25.23
364.4	394.4	24.42	24.94	25.36
403.8	433.8	24.65	24.94	25.10
423.4	453.4	24.91	25.01	25.11
462.8	492.8	25.18	25.30	25.40
482.5	512.5	24.95	25.16	25.37
521.8	551.8	23.27	23.78	24.30
541.5	571.5	22.01	22.55	23.04
580.9	610.9	19.64	19.98	20.38
600.6	630.6	18.60	18.85	19.15
639.9	669.9	17.06	17.10	17.23
659.6	689.6	16.38	16.38	16.42
699.0	729.0	15.42	15.29	15.24
718.7	748.7	15.03	14.90	14.80
758.0	788.0	14.35	14.17	14.06
777.7	807.7	14.05	13.90	13.79
817.1	847.1	13.47	13.37	13.30
836.8	866.8	13.22	13.15	13.09
876.1	906.1	12.83	12.82	12.84
895.8	925.8	12.71	12.73	12.80
935.2	965.2	12.51	12.62	12.77
954.9	984.9	12.42	12.56	12.75
994.2	1024.2	12.30	12.51	12.73
1013.9	1043.9	12.19	12.41	12.62
1053.3	1083.3	12.00	12.19	12.35
1073.0	1103.0	11.92	12.11	12.25
1112.3	1142.3	11.63	11.84	11.96
1132.0	1162.0	11.50	11.70	11.83
1171.4	1201.4	11.21	11.43	11.54
1191.1	1221.1	11.01	11.24	11.34
1230.4	1260.4	10.61	10.80	10.87
1250.1	1280.1	10.40	10.55	10.59



Frequency Mixer

RMS-1W+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)		
		@LO (dBm)		
		+4	+7	+10
5.0	35.0	1.14	1.16	1.20
10.0	40.0	1.06	1.10	1.15
49.5	79.5	1.04	1.09	1.17
88.8	118.8	1.10	1.09	1.12
128.2	158.2	1.03	1.10	1.16
167.6	197.6	1.07	1.08	1.12
206.9	236.9	1.06	1.13	1.19
246.3	276.3	1.09	1.14	1.19
285.7	315.7	1.08	1.14	1.20
325.0	355.0	1.13	1.20	1.25
364.4	394.4	1.12	1.20	1.25
403.8	433.8	1.17	1.23	1.29
423.4	453.4	1.17	1.23	1.29
462.8	492.8	1.21	1.27	1.32
482.5	512.5	1.24	1.29	1.35
521.8	551.8	1.28	1.35	1.41
541.5	571.5	1.32	1.40	1.47
580.9	610.9	1.36	1.45	1.52
600.6	630.6	1.38	1.47	1.55
639.9	669.9	1.44	1.54	1.62
659.6	689.6	1.44	1.54	1.61
699.0	729.0	1.45	1.55	1.63
718.7	748.7	1.48	1.57	1.64
758.0	788.0	1.42	1.48	1.54
777.7	807.7	1.41	1.46	1.52
817.1	847.1	1.47	1.51	1.55
836.8	866.8	1.48	1.50	1.53
876.1	906.1	1.55	1.57	1.60
895.8	925.8	1.67	1.69	1.72
935.2	965.2	1.82	1.81	1.82
954.9	984.9	1.90	1.89	1.90
994.2	1024.2	2.25	2.24	2.24
1013.9	1043.9	2.35	2.33	2.32
1053.3	1083.3	2.57	2.54	2.52
1073.0	1103.0	2.79	2.75	2.73
1112.3	1142.3	2.93	2.89	2.85
1132.0	1162.0	3.32	3.26	3.22
1171.4	1201.4	3.29	3.23	3.18
1191.1	1221.1	3.26	3.20	3.15
1230.4	1260.4	3.35	3.29	3.23
1250.1	1280.1	3.34	3.29	3.22

LO (MHz)	LO VSWR (:1)		
	@LO (dBm)		
	+4	+7	+10
5.0	1.68	2.41	3.33
10.0	1.64	2.36	3.28
49.5	1.74	2.52	3.50
88.8	1.73	2.50	3.45
128.2	1.70	2.44	3.33
167.6	1.74	2.48	3.38
206.9	1.73	2.43	3.30
246.3	1.79	2.52	3.40
285.7	1.82	2.55	3.43
325.0	1.85	2.59	3.48
364.4	1.92	2.68	3.59
403.8	1.90	2.61	3.47
423.4	1.95	2.68	3.54
462.8	2.02	2.76	3.65
482.5	1.98	2.69	3.52
521.8	2.01	2.72	3.56
541.5	2.05	2.77	3.62
580.9	2.07	2.74	3.56
600.6	2.13	2.82	3.65
639.9	2.21	2.91	3.75
659.6	2.22	2.89	3.70
699.0	2.29	2.98	3.78
718.7	2.30	2.98	3.79
758.0	2.37	3.05	3.84
777.7	2.38	3.07	3.86
817.1	2.43	3.12	3.93
836.8	2.48	3.17	3.98
876.1	2.46	3.13	3.90
895.8	2.42	3.06	3.82
935.2	2.51	3.16	3.95
954.9	2.51	3.15	3.93
994.2	2.51	3.12	3.88
1013.9	2.60	3.24	4.02
1053.3	2.66	3.27	4.04
1073.0	2.66	3.23	3.96
1112.3	2.76	3.33	4.08
1132.0	2.80	3.35	4.08
1171.4	2.88	3.38	4.07
1191.1	2.92	3.43	4.12
1230.4	3.05	3.53	4.23
1250.1	3.18	3.69	4.40

IF (OUT) (MHz)	IF VSWR @LO=750.1MHz (:1)		
	@LO (dBm)		
	+4	+7	+10
5.0	1.39	1.24	1.14
10.0	1.40	1.25	1.15
28.8	2.26	1.82	1.70
47.5	2.04	1.74	1.51
66.3	1.93	1.65	1.45
85.0	1.97	1.75	1.50
103.7	2.08	1.80	1.60
122.4	2.07	1.81	1.56
141.1	2.01	1.77	1.55
159.8	2.06	1.80	1.57
178.6	2.11	1.84	1.63
197.3	2.10	1.84	1.63
216.0	2.07	1.82	1.61
234.7	2.01	1.77	1.58
253.4	2.02	1.79	1.61
272.2	2.01	1.79	1.62
290.9	2.01	1.79	1.64
309.6	1.99	1.79	1.63
328.3	1.97	1.76	1.62
347.0	1.93	1.77	1.64
365.7	1.97	1.79	1.68
384.5	2.00	1.83	1.71
403.2	1.97	1.81	1.71
421.9	1.94	1.80	1.70
440.6	1.99	1.85	1.76
459.3	2.03	1.89	1.80
478.0	2.01	1.88	1.80
496.8	1.99	1.86	1.77
515.5	1.97	1.86	1.79
534.2	1.99	1.88	1.82
552.9	2.03	1.91	1.86
571.6	2.04	1.93	1.87
590.4	2.03	1.92	1.86
609.1	2.02	1.92	1.88
627.8	2.05	1.95	1.91
646.5	2.11	2.00	1.94
665.2	2.12	1.99	1.93
683.9	2.05	1.92	1.87
702.7	2.03	1.91	1.87
721.4	2.08	1.98	1.94
740.1	2.18	2.06	2.00

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	11	23	12	31	23	33	19	34	29	39
1	-	18	+0	25	12	26	18	40	40	41	44	41
2	104	88	49	62	48	70	48	57	54	72	66	61
3	108	69	67	68	68	72	60	69	67	77	83	76
4	114	97	95	94	83	88	87	101	87	94	106	98
5	120	103	105	104	93	93	90	92	96	95	95	102
6	121	114	103	112	106	91	87	88	96	110	95	103
7	108	109	109	107	106	111	104	88	87	100	102	107
8	123	107	103	102	111	117	99	92	95	86	99	108
9	119	112	102	107	112	100	99	113	106	99	116	97
10	120	110	102	116	115	108	110	113	95	97	90	98
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 370.1 MHz; -14.00 dBm.
 LO IN: 400.01 MHz; +7.00 dBm
 IF OUT: 29.91 MHz; -20 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	20	33	24	52	36	47	33	48	47	55
1	-	18	+0	25	12	26	19	44	40	47	47	47
2	104	57	42	60	41	59	44	54	50	62	60	59
3	136	53	47	52	51	57	39	59	44	55	66	60
4	111	67	74	65	59	67	55	71	55	68	62	77
5	118	73	73	67	57	65	55	69	55	63	57	74
6	115	91	73	78	73	75	80	77	72	92	74	78
7	114	84	83	84	72	78	80	89	92	90	73	77
8	114	102	98	97	94	89	87	83	94	85	83	84
9	125	101	103	99	94	89	82	88	87	95	88	89
10	120	107	103	112	102	103	92	92	92	91	97	94
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 370.1 MHz; -4.00 dBm.
 LO IN: 400.01 MHz; +7.00 dBm
 IF OUT: 29.91 MHz; -10.05 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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 100817
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