

# Frequency Mixer

# LRMS-1WJ

## 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	18.99	21.08	21.36	10.1	40.1	1.31	1.16	0.78
4.0	34.0	6.24	5.93	5.84	30.1	60.1	17.10	17.52	17.80	30.1	60.1	1.32	1.08	0.89
5.0	35.0	6.20	5.89	5.82	50.1	80.1	18.40	17.17	17.79	50.1	80.1	1.45	1.04	0.80
10.0	40.0	6.24	5.90	5.79	70.1	100.1	19.15	18.28	18.28	70.1	100.1	1.37	1.13	0.77
30.1	60.1	5.99	5.66	5.50	110.1	140.1	16.26	16.71	23.72	110.1	140.1	1.33	1.04	0.76
50.1	80.1	6.01	5.69	5.57	130.1	160.1	16.22	16.80	29.19	130.1	160.1	1.33	1.06	0.73
70.1	100.1	6.00	5.73	5.58	170.1	200.1	15.92	19.23	25.28	170.1	200.1	1.26	1.01	0.66
110.1	140.1	6.11	5.78	5.68	190.1	220.1	17.24	19.70	24.84	190.1	220.1	1.30	0.93	0.70
170.1	200.1	6.13	5.83	5.72	230.1	260.1	17.17	19.18	18.74	230.1	260.1	1.35	0.93	0.77
190.1	220.1	6.11	5.84	5.72	250.1	280.1	18.49	20.29	19.40	250.1	280.1	1.23	0.95	0.72
230.1	260.1	6.07	5.84	5.74	290.1	320.1	17.01	23.23	24.68	290.1	320.1	1.25	0.84	0.71
250.1	280.1	6.09	5.82	5.72	310.1	340.1	24.46	20.51	21.56	310.1	340.1	1.27	1.02	0.72
290.1	320.1	6.10	5.84	5.72	350.1	380.1	15.36	16.34	18.49	350.1	380.1	1.34	0.90	0.74
310.1	340.1	6.09	5.84	5.75	370.1	400.1	13.41	15.40	16.38	370.1	400.1	1.27	0.90	0.65
350.1	380.1	6.03	5.76	5.77	410.1	440.1	16.27	14.87	18.05	410.1	440.1	1.20	0.76	0.71
370.1	400.1	6.12	5.90	5.80	430.1	460.1	18.83	18.71	22.25	430.1	460.1	1.03	0.82	0.67
410.1	440.1	6.25	6.01	5.87	470.1	500.1	16.22	21.29	19.12	470.1	500.1	1.18	0.90	0.73
430.1	460.1	6.23	5.96	5.79	490.1	520.1	16.13	19.67	19.17	490.1	520.1	1.25	0.96	0.76
470.1	500.1	6.33	6.07	5.95	530.1	560.1	17.83	21.11	18.53	530.1	560.1	1.15	0.81	0.57
490.1	520.1	6.33	6.08	5.96	550.1	580.1	13.87	16.63	19.08	550.1	580.1	1.23	0.90	0.63
550.1	580.1	6.40	6.13	6.02	590.1	620.1	12.50	14.05	16.44	590.1	620.1	1.16	0.98	0.63
590.1	620.1	6.52	6.30	6.20	610.1	640.1	11.02	13.11	16.57	610.1	640.1	1.33	0.82	0.61
610.1	640.1	6.60	6.39	6.26	650.1	680.1	9.26	11.29	13.80	650.1	680.1	1.63	1.17	0.98
650.1	680.1	6.80	6.56	6.44	670.1	700.1	8.39	10.64	14.74	670.1	700.1	1.61	1.19	0.93
670.1	700.1	6.86	6.63	6.52	710.1	740.1	7.36	9.46	12.54	710.1	740.1	1.63	1.29	1.05
710.1	740.1	6.97	6.76	6.60	730.1	760.1	6.98	9.16	11.98	730.1	760.1	1.72	1.49	1.15
730.1	760.1	7.09	6.84	6.67	770.1	800.1	6.92	9.57	13.01	770.1	800.1	1.86	1.42	1.20
770.1	800.1	7.22	6.93	6.75	790.1	820.1	7.19	10.04	14.21	790.1	820.1	1.80	1.53	1.27
790.1	820.1	7.25	6.97	6.77	830.1	860.1	8.20	12.22	16.11	830.1	860.1	1.94	1.62	1.43
830.1	860.1	7.42	7.09	6.89	850.1	880.1	9.03	12.84	20.16	850.1	880.1	2.03	1.69	1.43
850.1	880.1	7.48	7.12	6.96	890.1	920.1	10.59	16.29	27.84	890.1	920.1	1.97	1.77	1.47
890.1	920.1	7.63	7.20	7.01	910.1	940.1	11.48	15.51	18.06	910.1	940.1	2.11	1.73	1.62
910.1	940.1	7.83	7.37	7.14	950.1	980.1	13.81	20.68	19.28	950.1	980.1	1.90	1.71	1.39
950.1	980.1	8.19	7.66	7.38	970.1	1000.1	14.67	20.93	19.37	970.1	1000.1	1.80	1.64	1.28
970.1	1000.1	8.50	7.85	7.57	1010.1	1040.1	12.90	15.62	16.51	1010.1	1040.1	1.50	1.31	1.18
1010.1	1040.1	8.95	8.35	8.04	1030.1	1060.1	11.17	14.11	14.57	1030.1	1060.1	1.37	1.07	0.91
1070.1	1100.1	9.70	9.07	8.69	1070.1	1100.1	8.87	11.15	12.80	1070.1	1100.1	1.20	1.01	0.78
1090.1	1120.1	9.92	9.25	8.91	1090.1	1120.1	8.38	10.79	12.15	1090.1	1120.1	1.16	0.89	0.87
1130.1	1160.1	10.39	9.77	9.44	1130.1	1160.1	7.80	9.46	12.12	1130.1	1160.1	1.06	0.94	0.81
1150.1	1180.1	10.70	10.01	9.62	1150.1	1180.1	7.94	9.66	11.57	1150.1	1180.1	1.04	0.90	0.78

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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	6.03	10.0	20.1	5.78	740.0	10.1	7.31
356.1	19.0	6.02	28.7	38.8	5.64	721.3	28.8	7.30
347.3	27.9	5.99	47.4	57.5	5.62	702.6	47.5	7.22
338.4	36.7	5.97	66.2	76.3	5.68	683.8	66.3	7.15
329.5	45.6	5.94	84.9	95.0	5.69	665.1	85.0	7.09
320.6	54.5	5.90	103.6	113.7	5.75	646.4	103.7	7.05
311.8	63.4	5.89	122.3	132.4	5.71	627.7	122.4	7.04
302.9	72.2	5.87	141.0	151.1	5.75	609.0	141.1	6.99
294.0	81.1	5.84	159.7	169.8	5.78	590.3	159.8	6.94
285.1	90.0	5.84	178.5	188.6	5.79	571.5	178.6	6.91
276.3	98.9	5.83	197.2	207.3	5.81	552.8	197.3	6.94
267.4	107.7	5.82	215.9	226.0	5.85	534.1	216.0	6.90
258.5	116.6	5.80	234.6	244.7	5.85	515.4	234.7	6.90
249.6	125.5	5.82	253.3	263.4	5.89	496.7	253.4	6.86
240.8	134.4	5.78	272.1	282.2	5.89	477.9	272.2	6.84
231.9	143.2	5.77	290.8	300.9	5.92	459.2	290.9	6.86
223.0	152.1	5.77	309.5	319.6	5.93	440.5	309.6	6.96
214.1	161.0	5.77	328.2	338.3	5.94	421.8	328.3	6.94
205.3	169.9	5.77	346.9	357.0	5.91	403.1	347.0	6.91
196.4	178.7	5.75	365.6	375.7	5.94	384.4	365.7	6.91
187.5	187.6	5.32	384.4	394.5	5.96	365.6	384.5	6.98
178.6	196.5	5.75	403.1	413.2	5.92	346.9	403.2	6.99
169.8	205.4	5.74	421.8	431.9	5.98	328.2	421.9	6.99
160.9	214.2	5.73	440.5	450.6	6.01	309.5	440.6	6.99
152.0	223.1	5.78	459.2	469.3	6.00	290.8	459.3	6.95
143.1	232.0	5.77	477.9	488.0	6.06	272.1	478.0	6.94
134.3	240.9	5.77	496.7	506.8	6.12	253.3	496.8	6.93
125.4	249.7	5.78	515.4	525.5	6.14	234.6	515.5	6.90
116.5	258.6	5.80	534.1	544.2	6.17	215.9	534.2	6.88
107.6	267.5	5.79	552.8	562.9	6.21	197.2	552.9	6.88
98.8	276.4	5.79	571.5	581.6	6.24	178.5	571.6	6.90
89.9	285.2	5.77	590.3	600.4	6.20	159.7	590.4	6.93
81.0	294.1	5.66	609.0	619.1	6.24	141.0	609.1	6.94
72.1	303.0	5.64	627.7	637.8	6.20	122.3	627.8	6.92
63.3	311.9	5.77	646.4	656.5	6.16	103.6	646.5	6.90
54.4	320.7	5.80	665.1	675.2	6.15	84.9	665.2	6.91
45.5	329.6	5.76	683.8	693.9	6.19	66.2	683.9	6.91
36.6	338.5	5.80	702.6	712.7	6.20	47.4	702.7	6.86
18.9	356.2	5.85	721.3	731.4	6.14	28.7	721.4	6.88
10.0	365.1	5.72	740.0	750.1	6.08	10.0	740.1	6.78

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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
30.1	61.83	62.72	62.90	56.35	52.56	52.15
50.1	57.32	58.63	58.28	52.53	49.13	47.92
70.1	54.12	54.62	54.97	49.58	46.69	45.41
110.1	49.78	50.12	50.71	45.90	43.60	42.25
170.1	45.44	45.97	46.55	42.64	40.71	39.21
190.1	44.34	44.95	45.35	41.99	40.01	38.56
230.1	42.59	43.13	43.53	40.23	38.45	36.94
250.1	41.72	42.10	42.35	39.41	37.82	36.44
290.1	40.51	41.02	41.27	37.64	36.35	35.13
310.1	39.79	40.31	40.60	36.78	35.67	34.54
350.1	38.21	38.52	38.76	35.13	34.39	33.44
370.1	37.69	37.92	38.19	34.14	33.63	32.76
410.1	37.07	37.25	37.46	32.32	32.29	31.89
430.1	37.05	37.27	37.37	31.18	31.20	30.98
470.1	36.77	36.98	36.94	29.84	29.85	29.71
490.1	36.50	36.66	36.56	29.28	29.30	29.19
550.1	35.15	35.11	34.93	28.08	28.12	28.01
590.1	34.07	34.26	34.29	27.60	27.83	27.55
610.1	33.41	33.69	33.81	27.18	27.58	27.25
650.1	32.57	33.04	33.36	26.26	27.10	26.87
670.1	32.19	32.73	33.12	25.67	26.84	26.91
710.1	31.67	32.31	32.84	24.57	25.97	26.53
730.1	31.65	32.37	32.97	23.99	25.47	26.18
770.1	31.60	32.41	33.07	23.09	24.52	25.41
790.1	31.59	32.42	33.04	22.57	23.91	24.78
830.1	31.40	32.12	32.51	21.64	22.83	23.64
850.1	31.12	31.69	31.96	21.17	22.25	23.05
890.1	30.02	30.33	30.44	20.56	21.49	22.26
910.1	29.51	29.73	29.79	20.11	20.98	21.75
950.1	28.43	28.40	28.35	19.86	20.63	21.38
970.1	27.88	27.75	27.65	19.71	20.45	21.18
1010.1	26.94	26.64	26.50	19.72	20.45	21.17
1070.1	26.04	25.57	25.34	19.86	20.80	21.59
1090.1	25.70	25.25	25.03	19.56	20.64	21.49
1130.1	25.05	24.66	24.43	19.24	20.60	21.64
1150.1	24.64	24.32	24.12	19.11	20.64	21.83

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+4	+7	+10
10.1	40.1	34.96	34.93	33.54
30.1	60.1	35.76	40.36	36.20
50.1	80.1	34.37	33.30	33.89
70.1	100.1	31.98	31.62	31.60
110.1	140.1	28.28	28.34	28.40
130.1	160.1	27.18	27.18	27.41
170.1	200.1	25.73	25.79	25.86
190.1	220.1	25.36	25.48	25.50
230.1	260.1	24.61	24.69	24.81
250.1	280.1	24.61	24.59	24.69
290.1	320.1	24.92	25.03	25.16
310.1	340.1	24.77	25.21	25.58
350.1	380.1	24.77	25.29	25.64
370.1	400.1	24.81	25.14	25.29
410.1	440.1	25.07	25.10	25.09
430.1	460.1	25.32	25.41	25.44
470.1	500.1	24.09	24.59	25.05
490.1	520.1	22.84	23.45	24.03
530.1	560.1	20.10	20.59	20.98
550.1	580.1	18.81	19.18	19.55
590.1	620.1	16.89	17.09	17.30
610.1	640.1	16.14	16.28	16.42
650.1	680.1	15.05	15.08	15.16
670.1	700.1	14.60	14.61	14.69
710.1	740.1	13.84	13.83	13.89
730.1	760.1	13.54	13.49	13.54
770.1	800.1	13.05	13.00	13.03
790.1	820.1	12.85	12.81	12.86
830.1	860.1	12.53	12.54	12.68
850.1	880.1	12.44	12.51	12.67
890.1	920.1	12.27	12.45	12.74
910.1	940.1	12.20	12.44	12.77
950.1	980.1	11.93	12.25	12.64
970.1	1000.1	11.73	12.04	12.41
1010.1	1040.1	11.42	11.63	11.84
1030.1	1060.1	11.28	11.47	11.65
1070.1	1100.1	11.07	11.31	11.49
1090.1	1120.1	10.94	11.20	11.38
1130.1	1160.1	10.54	10.83	11.00
1150.1	1180.1	10.30	10.58	10.74

# Frequency Mixer

# LRMS-1WJ

## Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=750.1MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+4	+7	+10		+4	+7	+10		+4	+7	+10
2.0	32.0	1.68	2.41	3.33	2.0	1.14	1.16	1.20	5.0	1.39	1.24	1.14
4.0	34.0	1.64	2.36	3.28	4.0	1.06	1.10	1.15	10.0	1.40	1.25	1.15
5.0	35.0	1.70	2.47	3.42	5.0	1.01	1.08	1.14	28.8	1.92	1.69	1.48
10.0	40.0	1.64	2.39	3.32	10.0	1.03	1.09	1.14	47.5	1.92	1.65	1.43
30.1	60.1	1.02	1.06	1.09	30.1	1.86	2.71	3.73	66.3	1.98	1.72	1.51
50.1	80.1	1.07	1.04	1.10	50.1	1.86	2.70	3.76	85.0	1.97	1.71	1.49
70.1	100.1	1.06	1.03	1.10	70.1	1.81	2.59	3.60	103.7	1.92	1.70	1.51
110.1	140.1	1.04	1.11	1.15	110.1	1.82	2.59	3.54	122.4	1.92	1.72	1.53
130.1	160.1	1.07	1.11	1.16	130.1	1.84	2.64	3.62	141.1	1.95	1.71	1.54
170.1	200.1	1.01	1.08	1.13	170.1	1.81	2.59	3.56	159.8	2.03	1.79	1.58
190.1	220.1	1.06	1.12	1.17	190.1	1.83	2.61	3.57	178.6	2.01	1.77	1.60
230.1	260.1	1.08	1.13	1.19	230.1	1.87	2.65	3.61	197.3	1.99	1.78	1.61
250.1	280.1	1.09	1.15	1.21	250.1	1.84	2.60	3.53	216.0	1.96	1.77	1.62
290.1	320.1	1.14	1.21	1.26	290.1	1.87	2.61	3.53	234.7	1.95	1.77	1.60
310.1	340.1	1.14	1.21	1.28	310.1	1.89	2.63	3.55	253.4	1.96	1.77	1.62
350.1	380.1	1.16	1.24	1.30	350.1	1.90	2.66	3.57	272.2	1.96	1.78	1.64
370.1	400.1	1.17	1.25	1.30	370.1	1.94	2.71	3.63	290.9	1.92	1.77	1.65
410.1	440.1	1.19	1.26	1.31	410.1	1.96	2.71	3.60	309.6	1.91	1.78	1.67
430.1	460.1	1.23	1.29	1.34	430.1	1.97	2.70	3.58	328.3	1.95	1.81	1.70
470.1	500.1	1.29	1.37	1.42	470.1	2.01	2.73	3.61	347.0	1.95	1.83	1.72
490.1	520.1	1.33	1.41	1.47	490.1	1.98	2.68	3.52	365.7	1.93	1.83	1.72
550.1	580.1	1.43	1.53	1.61	550.1	2.04	2.74	3.60	384.5	1.93	1.84	1.76
590.1	620.1	1.46	1.56	1.63	590.1	2.04	2.72	3.53	403.2	1.93	1.85	1.78
610.1	640.1	1.47	1.57	1.63	610.1	2.07	2.75	3.55	421.9	1.93	1.86	1.78
650.1	680.1	1.47	1.56	1.62	650.1	2.12	2.80	3.60	440.6	1.93	1.87	1.81
670.1	700.1	1.46	1.54	1.59	670.1	2.09	2.73	3.50	459.3	1.93	1.88	1.83
710.1	740.1	1.44	1.51	1.56	710.1	2.11	2.74	3.50	478.0	1.93	1.88	1.84
730.1	760.1	1.43	1.48	1.53	730.1	2.13	2.78	3.56	496.8	1.93	1.89	1.87
770.1	800.1	1.43	1.47	1.50	770.1	2.12	2.73	3.47	515.5	1.93	1.90	1.88
790.1	820.1	1.44	1.47	1.52	790.1	2.12	2.73	3.47	534.2	1.93	1.92	1.90
830.1	860.1	1.51	1.54	1.58	830.1	2.14	2.75	3.48	552.9	1.95	1.93	1.93
850.1	880.1	1.58	1.61	1.64	850.1	2.12	2.69	3.40	571.6	1.95	1.95	1.95
890.1	920.1	1.76	1.78	1.81	890.1	2.16	2.72	3.40	590.4	1.97	1.96	1.97
910.1	940.1	1.85	1.87	1.90	910.1	2.18	2.74	3.43	609.1	1.97	1.97	1.98
950.1	980.1	2.10	2.09	2.10	950.1	2.22	2.76	3.42	627.8	1.98	1.97	1.99
970.1	1000.1	2.22	2.21	2.21	970.1	2.26	2.80	3.45	646.5	2.00	1.99	2.00
1010.1	1040.1	2.44	2.42	2.42	1010.1	2.31	2.82	3.47	665.2	2.01	2.00	2.02
1070.1	1100.1	2.79	2.75	2.73	1070.1	2.35	2.82	3.43	683.9	2.01	2.00	2.02
1090.1	1120.1	2.86	2.82	2.80	1090.1	2.35	2.81	3.41	702.7	2.02	2.00	2.00
1130.1	1160.1	3.07	3.03	2.99	1130.1	2.39	2.83	3.42	721.4	2.01	1.99	2.01
1150.1	1180.1	3.08	3.05	3.02	1150.1	2.41	2.86	3.46	740.1	2.01	1.98	2.01

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## Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	6	23	7	26	13	27	26	39	41	42
1	-	19	0	26	11	32	18	37	40	41	48	37
2	112	61	47	56	46	64	45	54	50	70	60	63
3	110	69	61	69	63	68	58	72	66	73	82	74
4	126	90	89	88	92	84	94	92	83	88	93	94
5	114	105	93	95	96	94	83	101	94	101	97	113
6	120	110	100	106	101	97	87	96	105	96	104	105
7	115	113	116	126	104	96	105	89	105	97	93	98
8	112	119	113	106	110	110	102	89	84	87	98	95
9	112	104	105	118	110	106	104	109	96	91	99	98
10	114	119	107	125	116	99	112	101	103	96	83	89
	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; -20.05 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	15	32	19	43	25	40	39	52	60	63
1	-	19	0	28	12	32	19	41	41	47	52	45
2	112	53	39	52	39	56	40	50	45	55	52	66
3	121	56	44	54	46	51	40	67	44	54	61	57
4	114	62	69	63	58	63	56	77	50	62	60	77
5	113	83	64	66	59	71	56	79	56	67	62	76
6	123	95	73	81	77	81	77	83	72	85	90	81
7	119	81	90	85	72	76	73	79	75	78	70	85
8	113	98	109	97	91	90	93	93	98	89	82	94
9	109	99	101	96	100	93	84	86	84	86	84	90
10	113	99	103	108	112	116	96	94	94	98	97	102
	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; -10.06 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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