

# Frequency Mixer

# ZLW-1

## 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
10.1	40.1	5.86	5.29	5.03	10.1	40.1	16.36	18.42	17.42	10.1	40.1	0.11	0.39	0.01
40.1	70.1	6.08	5.55	5.29	40.1	70.1	16.34	18.13	21.22	40.1	70.1	0.17	0.05	0.09
70.1	100.1	5.99	5.49	5.25	70.1	100.1	19.10	20.10	17.06	70.1	100.1	0.27	0.12	0.05
100.1	130.1	6.05	5.60	5.38	100.1	130.1	17.47	15.92	16.14	100.1	130.1	0.25	0.10	0.03
130.1	160.1	6.00	5.52	5.34	130.1	160.1	18.31	15.94	17.55	130.1	160.1	0.27	0.12	0.06
160.1	190.1	5.94	5.56	5.39	160.1	190.1	16.06	15.79	18.93	160.1	190.1	0.30	0.12	0.05
190.1	220.1	5.92	5.57	5.41	190.1	220.1	13.39	15.59	21.29	190.1	220.1	0.29	0.12	0.07
220.1	250.1	5.94	5.59	5.45	220.1	250.1	13.45	19.71	17.33	220.1	250.1	0.32	0.10	0.05
250.1	280.1	5.96	5.61	5.45	250.1	280.1	16.40	16.50	21.27	250.1	280.1	0.28	0.11	0.06
280.1	310.1	5.91	5.61	5.49	280.1	310.1	21.04	13.12	11.63	280.1	310.1	0.35	0.16	0.11
310.1	340.1	6.00	5.68	5.52	310.1	340.1	18.12	13.69	11.57	310.1	340.1	0.31	0.13	0.09
340.1	370.1	6.22	5.80	5.60	340.1	370.1	13.41	20.73	16.34	340.1	370.1	0.21	0.11	0.04
370.1	400.1	6.16	5.85	5.63	370.1	400.1	17.53	21.08	21.18	370.1	400.1	0.29	0.16	0.10
400.1	430.1	6.19	5.90	5.73	400.1	430.1	13.99	11.74	11.91	400.1	430.1	0.32	0.14	0.09
430.1	460.1	6.22	5.92	5.76	430.1	460.1	15.17	11.38	10.05	430.1	460.1	0.39	0.13	0.10
460.1	490.1	6.26	5.98	5.84	460.1	490.1	18.39	13.33	11.50	460.1	490.1	0.46	0.20	0.15
490.1	520.1	6.42	6.09	5.92	490.1	520.1	16.41	12.19	11.31	490.1	520.1	0.51	0.23	0.14
520.1	550.1	6.68	6.24	6.07	520.1	550.1	12.93	11.63	14.04	520.1	550.1	0.58	0.31	0.10
550.1	580.1	6.85	6.39	6.18	550.1	580.1	8.03	12.28	13.95	550.1	580.1	0.62	0.40	0.12
580.1	610.1	7.31	6.76	6.33	580.1	610.1	3.41	7.07	12.45	580.1	610.1	0.54	0.41	0.19
610.1	640.1	7.76	7.29	6.66	610.1	640.1	1.98	2.54	7.37	610.1	640.1	0.47	0.28	0.23
640.1	670.1	8.12	7.68	7.07	640.1	670.1	1.57	1.23	3.66	640.1	670.1	0.37	0.16	0.14
670.1	700.1	8.84	8.37	7.75	670.1	700.1	1.27	0.83	1.92	670.1	700.1	0.00	-0.19	-0.19
700.1	730.1	9.53	8.99	8.36	700.1	730.1	1.80	1.42	1.90	700.1	730.1	-0.52	-0.67	-0.62
730.1	760.1	9.96	9.35	8.71	730.1	760.1	2.95	2.96	3.22	730.1	760.1	-0.93	-1.00	-0.90
760.1	790.1	10.34	9.63	8.88	760.1	790.1	3.97	4.68	5.57	760.1	790.1	-1.24	-1.22	-1.00
800.1	830.1	10.15	9.37	8.43	800.1	830.1	5.37	6.10	9.12	800.1	830.1	-0.99	-0.93	-0.55
830.1	860.1	9.72	8.82	7.80	830.1	860.1	5.99	7.76	17.83	830.1	860.1	-0.55	-0.44	-0.06
870.1	900.1	9.34	8.19	7.36	870.1	900.1	7.84	16.03	14.71	870.1	900.1	-0.11	0.10	0.21
900.1	930.1	9.11	7.88	7.26	900.1	930.1	11.27	10.51	13.78	900.1	930.1	0.21	0.37	0.26
940.1	970.1	8.76	7.61	7.18	940.1	970.1	11.14	11.05	14.47	940.1	970.1	0.66	0.54	0.29
970.1	1000.1	8.59	7.55	7.20	970.1	1000.1	8.73	11.85	14.78	970.1	1000.1	1.00	0.61	0.32
1010.1	1040.1	8.86	7.73	7.38	1010.1	1040.1	7.39	11.48	14.42	1010.1	1040.1	1.27	0.72	0.41
1040.1	1070.1	9.32	7.99	7.61	1040.1	1070.1	6.54	10.56	13.34	1040.1	1070.1	1.34	0.82	0.48
1080.1	1110.1	10.22	8.44	8.01	1080.1	1110.1	6.33	9.64	12.20	1080.1	1110.1	1.35	0.99	0.58
1110.1	1140.1	10.89	8.78	8.31	1110.1	1140.1	6.74	9.40	11.84	1110.1	1140.1	1.38	1.12	0.61
1150.1	1180.1	12.08	9.36	8.78	1150.1	1180.1	7.71	9.43	11.95	1150.1	1180.1	1.23	1.21	0.59
1180.1	1210.1	12.77	9.77	9.17	1180.1	1210.1	7.34	9.22	12.52	1180.1	1210.1	1.15	1.22	0.56
1220.1	1250.1	13.89	10.43	9.73	1220.1	1250.1	6.05	8.77	12.99	1220.1	1250.1	1.18	1.31	0.50
1250.1	1280.1	14.37	10.92	10.16	1250.1	1280.1	8.82	9.23	13.32	1250.1	1280.1	1.43	1.36	0.49

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## Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=250.1MHz (dB)
		@LO (dBm) +7
240.0	10.1	5.93
234.9	15.2	5.94
229.8	20.3	5.95
224.7	25.4	5.86
219.6	30.5	5.83
214.4	35.7	5.83
209.3	40.8	5.83
204.2	45.9	5.83
199.1	51.0	5.71
194.0	56.1	5.72
188.9	61.2	5.76
183.8	66.3	5.78
178.7	71.4	5.72
173.6	76.5	5.68
168.4	81.7	5.66
163.3	86.8	5.69
158.2	91.9	5.70
153.1	97.0	5.57
148.0	102.1	5.54
142.9	107.2	5.59
137.8	112.3	5.61
132.7	117.4	5.57
127.6	122.5	5.48
122.4	127.7	5.48
117.3	132.8	5.51
112.2	137.9	5.54
107.1	143.0	5.45
102.0	148.1	5.41
91.8	158.3	5.47
86.7	163.4	5.48
76.4	173.7	5.43
71.3	178.8	5.46
61.1	189.0	5.46
56.0	194.1	5.41
45.8	204.3	5.49
40.7	209.4	5.49
30.4	219.7	5.44
25.3	224.8	5.50
15.1	235.0	5.48
10.0	240.1	5.62

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=10.1MHz (dB)
		@LO (dBm) +7
10.0	20.1	5.37
50.0	60.1	5.23
90.0	100.1	5.35
130.0	140.1	5.39
170.0	180.1	5.51
210.0	220.1	5.33
250.0	260.1	5.70
290.0	300.1	5.56
330.0	340.1	5.82
350.0	360.1	5.67
390.0	400.1	6.09
410.0	420.1	5.84
450.0	460.1	6.41
470.0	480.1	6.32
510.0	520.1	6.27
530.0	540.1	6.45
570.0	580.1	6.23
590.0	600.1	6.26
630.0	640.1	6.83
650.0	660.1	6.38
690.0	700.1	6.21
710.0	720.1	6.34
750.0	760.1	6.57
770.0	780.1	6.24
810.0	820.1	6.77
830.0	840.1	6.88
870.0	880.1	6.33
890.0	900.1	6.49
930.0	940.1	6.33
950.0	960.1	5.93
990.0	1000.1	5.99
1010.0	1020.1	6.19
1050.0	1060.1	6.57
1070.0	1080.1	7.19
1110.0	1120.1	8.49
1130.0	1140.1	8.88
1170.0	1180.1	9.81
1190.0	1200.1	10.18
1230.0	1240.1	10.57
1250.0	1260.1	10.98

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=500.1MHz (dB)
		@LO (dBm) +7
490.0	10.1	6.57
479.8	20.3	6.47
469.6	30.5	6.40
459.4	40.7	6.32
449.1	51.0	6.38
438.9	61.2	6.27
428.7	71.4	6.23
418.5	81.6	6.15
408.3	91.8	6.10
398.1	102.0	6.05
387.9	112.2	5.93
377.7	122.4	5.96
367.4	132.7	5.81
357.2	142.9	5.88
347.0	153.1	5.82
336.8	163.3	5.84
326.6	173.5	5.82
316.4	183.7	5.79
306.2	193.9	5.86
296.0	204.1	5.78
285.7	214.4	5.85
275.5	224.6	5.79
265.3	234.8	5.86
255.1	245.0	5.85
234.7	265.4	5.82
224.5	275.6	5.78
204.0	296.1	5.95
193.8	306.3	6.03
173.4	326.7	6.01
163.2	336.9	5.99
142.8	357.3	6.04
132.6	367.5	5.97
112.1	388.0	5.94
101.9	398.2	5.93
81.5	418.6	5.92
71.3	428.8	5.96
50.9	449.2	6.06
40.6	459.5	5.97
20.2	479.9	6.03
10.0	490.1	6.22

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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
40.1	63.68	65.66	68.21	66.17	67.69	68.94
70.1	59.03	61.29	63.51	61.28	62.39	63.03
100.1	56.06	57.77	59.99	57.59	57.82	59.38
130.1	53.44	55.68	58.14	53.79	54.75	57.29
160.1	51.47	53.96	56.45	51.01	52.92	55.47
190.1	49.84	52.35	54.62	49.26	51.57	53.88
220.1	48.68	51.46	54.04	47.53	49.89	51.83
250.1	47.69	50.15	52.26	46.68	49.12	50.99
280.1	46.58	49.13	51.19	46.04	48.47	49.90
310.1	46.03	49.01	51.76	44.77	46.61	47.82
340.1	45.12	47.66	49.67	44.65	46.25	47.19
370.1	43.97	46.35	48.60	44.15	45.83	46.12
400.1	43.21	45.72	48.19	43.01	44.38	44.26
430.1	42.48	44.67	46.84	42.89	43.88	43.48
460.1	41.52	43.55	45.59	43.35	43.72	43.09
490.1	41.03	43.03	45.19	44.34	43.71	42.12
520.1	40.71	42.49	44.77	45.08	42.58	39.67
550.1	41.17	43.66	46.24	44.16	40.72	37.86
580.1	41.18	44.16	46.32	41.45	39.70	37.31
610.1	39.81	42.51	43.93	37.96	37.96	36.00
640.1	38.47	40.75	42.38	36.06	35.92	34.53
670.1	37.62	39.56	41.32	34.72	34.24	33.01
700.1	36.76	38.45	39.84	33.60	33.11	32.09
730.1	36.12	37.86	39.42	32.62	32.28	31.59
760.1	35.44	37.17	38.85	31.28	31.17	30.95
790.1	35.00	36.64	38.25	29.97	29.98	30.03
830.1	34.87	36.70	38.90	27.95	28.35	28.93
860.1	34.89	37.26	40.95	26.44	27.20	28.13
900.1	35.10	38.34	43.30	24.11	25.46	26.21
930.1	35.08	39.21	44.98	22.61	24.40	24.67
970.1	35.59	40.74	47.48	20.68	22.54	22.84
1000.1	35.14	40.62	49.44	19.36	21.04	21.62
1040.1	34.33	39.80	50.02	17.82	19.21	20.10
1070.1	33.43	38.13	45.57	17.30	18.29	19.38
1110.1	32.68	36.30	41.31	17.27	17.37	18.39
1140.1	32.18	35.08	38.62	17.52	17.17	18.10
1180.1	31.19	33.31	35.86	17.40	16.91	17.78
1210.1	30.63	32.51	34.44	16.92	16.63	17.54
1250.1	29.67	31.19	32.48	16.30	16.21	17.20
1280.1	29.21	30.53	31.47	15.70	15.97	16.96

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+4	+7	+10
10.1	40.1	46.06	45.67	44.92
40.1	70.1	35.95	35.74	35.53
70.1	100.1	31.56	31.79	31.69
100.1	130.1	29.32	29.58	29.63
130.1	160.1	27.75	28.02	28.08
160.1	190.1	26.54	26.89	27.04
190.1	220.1	25.85	26.07	26.22
220.1	250.1	25.78	26.04	26.13
250.1	280.1	25.46	26.07	26.39
280.1	310.1	25.05	25.63	26.14
310.1	340.1	25.27	25.80	26.16
340.1	370.1	25.65	26.17	26.45
370.1	400.1	25.21	25.62	25.91
400.1	430.1	25.16	25.66	26.19
430.1	460.1	24.82	25.34	25.80
460.1	490.1	23.76	24.24	24.74
490.1	520.1	22.94	23.43	24.04
520.1	550.1	22.18	22.45	22.62
550.1	580.1	21.44	21.27	21.13
580.1	610.1	20.71	20.44	20.06
610.1	640.1	19.98	19.79	19.47
640.1	670.1	19.31	19.21	19.06
670.1	700.1	18.81	18.72	18.72
700.1	730.1	18.76	18.65	18.64
730.1	760.1	19.06	18.87	18.74
760.1	790.1	19.29	19.05	18.91
800.1	830.1	19.24	19.06	19.14
830.1	860.1	18.86	18.85	18.81
870.1	900.1	18.15	18.07	17.49
900.1	930.1	17.54	17.14	16.51
940.1	970.1	16.65	16.07	15.71
970.1	1000.1	16.01	15.57	15.30
1010.1	1040.1	15.41	15.14	14.84
1040.1	1070.1	14.83	14.68	14.41
1080.1	1110.1	13.95	14.01	13.81
1110.1	1140.1	13.38	13.47	13.30
1150.1	1180.1	12.75	12.76	12.59
1180.1	1210.1	12.36	12.28	12.10
1220.1	1250.1	11.91	11.62	11.42
1250.1	1280.1	11.53	11.14	10.92

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## Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)		
		@LO (dBm)		
		+4	+7	+10
10.1	40.1	1.42	1.29	1.08
40.1	70.1	1.37	1.19	1.09
70.1	100.1	1.33	1.17	1.09
100.1	130.1	1.29	1.13	1.08
130.1	160.1	1.23	1.12	1.11
160.1	190.1	1.24	1.13	1.12
190.1	220.1	1.21	1.10	1.10
220.1	250.1	1.18	1.11	1.12
250.1	280.1	1.19	1.11	1.15
280.1	310.1	1.17	1.07	1.11
310.1	340.1	1.13	1.05	1.09
340.1	370.1	1.15	1.07	1.11
370.1	400.1	1.15	1.06	1.14
400.1	430.1	1.10	1.05	1.14
430.1	460.1	1.07	1.05	1.12
460.1	490.1	1.03	1.07	1.15
490.1	520.1	1.05	1.15	1.23
520.1	550.1	1.09	1.19	1.24
550.1	580.1	1.15	1.18	1.21
580.1	610.1	1.24	1.19	1.19
610.1	640.1	1.31	1.24	1.20
640.1	670.1	1.39	1.33	1.26
670.1	700.1	1.50	1.44	1.36
700.1	730.1	1.57	1.50	1.42
730.1	760.1	1.67	1.59	1.51
760.1	790.1	1.74	1.66	1.57
800.1	830.1	1.77	1.68	1.59
830.1	860.1	1.77	1.68	1.61
870.1	900.1	1.74	1.67	1.66
900.1	930.1	1.77	1.74	1.76
940.1	970.1	1.81	1.81	1.83
970.1	1000.1	1.88	1.89	1.92
1010.1	1040.1	2.07	2.07	2.09
1040.1	1070.1	2.23	2.19	2.22
1080.1	1110.1	2.52	2.40	2.41
1110.1	1140.1	2.80	2.60	2.60
1150.1	1180.1	3.16	2.87	2.84
1180.1	1210.1	3.49	3.12	3.08
1220.1	1250.1	3.87	3.42	3.35
1250.1	1280.1	3.97	3.54	3.48

LO (MHz)	LO VSWR (:1)		
	@LO (dBm)		
	+4	+7	+10
40.1	1.03	1.65	2.55
70.1	1.04	1.54	2.28
100.1	1.04	1.52	2.24
130.1	1.04	1.54	2.28
160.1	1.05	1.50	2.18
190.1	1.07	1.49	2.15
220.1	1.08	1.51	2.18
250.1	1.09	1.50	2.14
280.1	1.10	1.50	2.12
310.1	1.10	1.53	2.16
340.1	1.12	1.53	2.15
370.1	1.13	1.55	2.14
400.1	1.13	1.60	2.20
430.1	1.14	1.62	2.24
460.1	1.16	1.65	2.25
490.1	1.19	1.69	2.31
520.1	1.24	1.73	2.33
550.1	1.30	1.77	2.37
580.1	1.39	1.89	2.49
610.1	1.47	2.02	2.63
640.1	1.54	2.11	2.74
670.1	1.64	2.24	2.90
700.1	1.75	2.36	3.04
730.1	1.85	2.46	3.16
760.1	1.96	2.59	3.30
790.1	2.10	2.74	3.47
830.1	2.27	2.90	3.63
860.1	2.41	3.03	3.76
900.1	2.62	3.20	3.92
930.1	2.79	3.32	4.04
970.1	3.06	3.53	4.26
1000.1	3.37	3.79	4.51
1040.1	3.95	4.25	4.87
1070.1	4.43	4.61	5.14
1110.1	5.13	5.16	5.65
1140.1	5.58	5.49	5.97
1180.1	5.95	5.72	6.19
1210.1	6.13	5.91	6.39
1250.1	6.13	5.95	6.44
1280.1	5.87	5.83	6.37

IF (OUT) (MHz)	IF VSWR @LO=500.1MHz (:1)		
	@LO (dBm)		
	+4	+7	+10
10.0	1.99	1.79	1.64
20.0	1.94	1.75	1.60
30.0	1.95	1.75	1.61
40.0	1.98	1.79	1.64
50.0	2.00	1.81	1.66
60.0	1.97	1.78	1.63
70.0	1.95	1.76	1.61
80.0	2.01	1.81	1.66
90.0	2.06	1.86	1.70
100.0	2.07	1.87	1.72
110.0	2.04	1.85	1.70
120.0	2.03	1.84	1.69
130.0	2.08	1.87	1.72
140.0	2.12	1.91	1.75
150.0	2.13	1.92	1.77
160.0	2.12	1.92	1.76
170.0	2.14	1.92	1.76
180.0	2.20	1.98	1.82
190.0	2.25	2.04	1.87
200.0	2.25	2.04	1.88
210.0	2.23	2.02	1.86
220.0	2.26	2.04	1.87
240.0	2.37	2.14	1.97
250.1	2.41	2.14	1.99
270.1	2.42	2.17	1.99
280.1	2.51	2.26	2.07
300.1	2.51	2.27	2.09
310.1	2.51	2.26	2.08
330.1	2.66	2.39	2.20
340.1	2.69	2.43	2.23
360.1	2.69	2.42	2.22
370.1	2.77	2.49	2.29
390.1	2.86	2.58	2.37
400.1	2.84	2.56	2.35
420.1	2.96	2.67	2.45
430.1	3.04	2.74	2.52
450.1	3.03	2.72	2.49
460.1	3.07	2.76	2.53
480.1	3.22	2.91	2.67
490.1	3.22	2.91	2.66

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## Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(dBc)										
0	-	-	22	38	39	30	22	42	25	45	42	48
1	-	21	+0	30	13	41	20	40	38	42	32	42
2	>90	67	59	>70	60	69	63	>70	57	70	60	68
3	>90	>70	63	>70	63	>70	60	>70	59	>70	63	>70
4	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
5	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
6	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
7	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
8	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
9	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
10	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 250.1 MHz; -14.00 dBm.  
 LO IN: 280.1 MHz; +7.00 dBm  
 IF OUT: 30 MHz; -19.56 dBm

RF HARMONICS ORDER

	(-dBm)	(dBc)										
0	-	-	31	48	57	40	34	56	37	55	54	62
1	-	21	+0	30	13	42	20	40	37	46	37	47
2	74	64	54	68	56	68	58	68	50	67	54	67
3	>90	58	49	72	63	69	53	63	52	65	54	57
4	>90	>80	75	>80	72	>80	72	>80	73	>80	69	79
5	>90	80	64	>80	72	75	64	69	58	75	57	75
6	>90	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
7	>90	>80	>80	>80	>80	>80	77	79	70	80	69	>80
8	>90	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
9	>90	>80	>80	>80	>80	>80	>80	>80	>80	>80	78	>80
10	>90	>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: 250.1 MHz; -4.00 dBm.  
 LO IN: 280.1 MHz; +7.00 dBm  
 IF OUT: 30 MHz; -9.58 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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