

Frequency Mixer

ZLW-2H+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)		
		@LO (dBm)		
		+14	+17	+20
10.1	40.1	6.14	5.79	5.66
50.1	80.1	6.47	6.08	5.88
90.1	120.1	6.34	6.03	5.90
130.1	160.1	6.42	6.07	5.95
170.1	200.1	6.27	6.05	5.98
200.1	230.1	6.29	6.08	5.99
240.1	270.1	6.33	6.10	5.99
270.1	300.1	6.27	6.09	6.02
310.1	340.1	6.25	6.08	6.00
340.1	370.1	6.32	6.12	6.03
380.1	410.1	6.36	6.17	6.08
410.1	440.1	6.46	6.27	6.14
450.1	480.1	6.50	6.30	6.20
480.1	510.1	6.58	6.36	6.26
520.1	550.1	6.77	6.54	6.41
550.1	580.1	6.83	6.61	6.48
590.1	620.1	6.99	6.72	6.55
620.1	650.1	7.21	6.89	6.68
660.1	690.1	7.38	6.97	6.72
690.1	720.1	7.57	7.09	6.78
730.1	760.1	7.80	7.25	6.86
760.1	790.1	7.90	7.33	6.91
800.1	830.1	8.11	7.51	7.10
830.1	860.1	8.10	7.47	7.10
870.1	900.1	8.23	7.50	7.13
900.1	930.1	8.37	7.58	7.16
940.1	970.1	8.59	7.77	7.30
970.1	1000.1	8.81	7.99	7.49
1010.1	1040.1	8.85	8.10	7.59
1040.1	1070.1	8.90	8.18	7.69
1080.1	1110.1	9.17	8.46	7.99
1110.1	1140.1	9.34	8.64	8.17
1150.1	1180.1	9.51	8.82	8.36
1180.1	1210.1	9.70	8.98	8.50
1220.1	1250.1	10.01	9.24	8.71
1250.1	1280.1	10.54	9.68	9.07
1290.1	1320.1	11.37	10.43	9.72
1320.1	1350.1	11.94	10.98	10.19
1360.1	1390.1	12.69	11.81	11.04
1390.1	1420.1	13.05	12.28	11.65

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+14	+17	+20
10.1	40.1	23.58	26.90	25.73
50.1	80.1	23.22	23.43	24.12
90.1	120.1	21.17	28.63	25.99
130.1	160.1	22.67	27.01	24.23
170.1	200.1	26.98	22.91	23.77
200.1	230.1	23.71	22.27	23.80
240.1	270.1	22.33	21.61	23.47
270.1	300.1	20.45	21.31	23.09
310.1	340.1	18.87	20.39	22.68
340.1	370.1	18.33	19.82	21.87
380.1	410.1	18.49	20.07	23.40
410.1	440.1	18.52	19.82	22.29
450.1	480.1	19.36	21.36	24.23
480.1	510.1	19.17	21.83	25.35
520.1	550.1	16.83	18.88	21.96
550.1	580.1	15.91	17.55	20.23
590.1	620.1	15.65	17.63	20.17
620.1	650.1	15.86	18.20	20.98
660.1	690.1	16.02	19.75	23.76
690.1	720.1	15.51	19.07	23.86
730.1	760.1	15.46	18.95	24.41
760.1	790.1	15.46	19.55	24.55
800.1	830.1	15.57	19.84	23.77
830.1	860.1	16.92	21.44	23.30
870.1	900.1	17.81	22.44	23.34
900.1	930.1	17.28	22.10	23.41
940.1	970.1	17.47	21.50	21.60
970.1	1000.1	17.36	20.02	20.42
1010.1	1040.1	17.98	19.03	20.40
1040.1	1070.1	19.37	19.61	20.41
1080.1	1110.1	19.79	21.91	20.68
1110.1	1140.1	19.42	23.23	21.40
1150.1	1180.1	19.33	22.95	22.47
1180.1	1210.1	19.14	23.18	25.06
1220.1	1250.1	18.71	22.34	27.06
1250.1	1280.1	17.42	20.44	24.56
1290.1	1320.1	16.21	18.76	21.76
1320.1	1350.1	15.65	17.66	20.65
1360.1	1390.1	15.58	16.95	19.43
1390.1	1420.1	16.42	17.71	19.63

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+10dBm (dB)		
		@LO (dBm)		
		+14	+17	+20
10.1	40.1	0.36	0.28	0.24
50.1	80.1	0.43	0.25	0.16
90.1	120.1	0.49	0.29	0.16
130.1	160.1	0.43	0.24	0.13
170.1	200.1	0.52	0.27	0.15
200.1	230.1	0.44	0.22	0.13
240.1	270.1	0.38	0.19	0.12
270.1	300.1	0.43	0.24	0.16
310.1	340.1	0.42	0.25	0.18
340.1	370.1	0.39	0.24	0.17
380.1	410.1	0.40	0.27	0.21
410.1	440.1	0.39	0.25	0.19
450.1	480.1	0.52	0.37	0.26
480.1	510.1	0.55	0.39	0.26
520.1	550.1	0.62	0.42	0.27
550.1	580.1	0.73	0.48	0.30
590.1	620.1	0.78	0.53	0.33
620.1	650.1	0.77	0.53	0.35
660.1	690.1	0.83	0.59	0.40
690.1	720.1	0.84	0.60	0.43
730.1	760.1	0.85	0.65	0.51
760.1	790.1	0.84	0.66	0.54
800.1	830.1	0.79	0.58	0.46
830.1	860.1	0.88	0.65	0.48
870.1	900.1	0.89	0.69	0.49
900.1	930.1	0.81	0.70	0.51
940.1	970.1	0.68	0.64	0.50
970.1	1000.1	0.57	0.55	0.45
1010.1	1040.1	0.65	0.59	0.49
1040.1	1070.1	0.66	0.59	0.49
1080.1	1110.1	0.57	0.52	0.41
1110.1	1140.1	0.47	0.43	0.34
1150.1	1180.1	0.44	0.39	0.32
1180.1	1210.1	0.43	0.41	0.34
1220.1	1250.1	0.42	0.43	0.38
1250.1	1280.1	0.30	0.39	0.39
1290.1	1320.1	0.06	0.23	0.31
1320.1	1350.1	-0.07	0.11	0.28
1360.1	1390.1	-0.15	0.00	0.16
1390.1	1420.1	-0.12	-0.03	0.08

REV. X2

ZLW-2H+

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Frequency Mixer

ZLW-2H+

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=500.1MHz (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)=1000.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
490.0	10.1	6.56	10.0	20.1	6.01	990.0	10.1	8.43
480.2	19.9	6.41	70.0	80.1	5.61	970.0	30.1	8.43
470.4	29.7	6.38	130.0	140.1	5.75	950.0	50.1	8.48
460.6	39.5	6.34	190.0	200.1	5.93	930.0	70.1	8.48
450.8	49.3	6.44	250.0	260.1	5.89	910.0	90.1	8.41
441.0	59.1	6.37	310.0	320.1	5.94	890.0	110.1	8.46
431.2	68.9	6.30	350.0	360.1	6.03	870.0	130.1	8.44
421.4	78.7	6.32	410.0	420.1	6.02	850.0	150.1	8.44
411.6	88.5	6.17	450.0	460.1	6.08	830.0	170.1	8.47
401.8	98.3	6.24	510.0	520.1	6.46	810.0	190.1	8.48
392.0	108.1	6.12	550.0	560.1	6.62	790.0	210.1	8.53
382.2	117.9	6.10	610.0	620.1	6.54	770.0	230.1	8.44
372.4	127.7	6.07	650.0	660.1	6.48	750.0	250.1	8.37
362.7	137.4	6.05	710.0	720.1	6.37	730.0	270.1	8.42
352.9	147.2	6.11	750.0	760.1	6.38	710.0	290.1	8.44
343.1	157.0	6.06	810.0	820.1	6.13	690.0	310.1	8.47
333.3	166.8	6.10	850.0	860.1	5.94	670.0	330.1	8.43
323.5	176.6	6.07	910.0	920.1	5.91	650.0	350.1	8.47
313.7	186.4	6.10	950.0	960.1	6.08	630.0	370.1	8.42
303.9	196.2	6.11	1010.0	1020.1	6.16	610.0	390.1	8.34
284.3	215.8	6.12	1050.0	1060.1	6.27	570.0	430.1	8.22
274.5	225.6	6.09	1110.0	1120.1	6.23	550.0	450.1	8.26
254.9	245.2	6.14	1150.0	1160.1	6.21	510.0	490.1	8.16
245.1	255.0	6.11	1210.0	1220.1	6.44	490.0	510.1	8.08
225.5	274.6	6.01	1250.0	1260.1	6.47	450.0	550.1	8.14
215.7	284.4	6.08	1310.0	1320.1	6.66	430.0	570.1	8.08
196.1	304.0	6.21	1350.0	1360.1	6.92	390.0	610.1	7.97
186.3	313.8	6.17	1410.0	1420.1	7.21	370.0	630.1	7.94
166.7	333.4	6.19	1450.0	1460.1	7.48	330.0	670.1	7.70
156.9	343.2	6.12	1510.0	1520.1	7.77	310.0	690.1	7.59
137.3	362.8	6.22	1550.0	1560.1	8.05	270.0	730.1	7.54
127.6	372.5	6.27	1610.0	1620.1	8.22	250.0	750.1	7.54
108.0	392.1	6.24	1650.0	1660.1	8.49	210.0	790.1	7.62
98.2	401.9	6.30	1710.0	1720.1	8.88	190.0	810.1	7.60
78.6	421.5	6.31	1750.0	1760.1	9.05	150.0	850.1	7.55
68.8	431.3	6.29	1810.0	1820.1	9.42	130.0	870.1	7.48
49.2	450.9	6.36	1850.0	1860.1	9.62	90.0	910.1	7.48
39.4	460.7	6.33	1910.0	1920.1	9.78	70.0	930.1	7.67
19.8	480.3	6.37	1950.0	1960.1	10.13	30.0	970.1	7.88
10.0	490.1	6.43	2010.0	2020.1	10.24	10.0	990.1	7.97

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+14	+17	+20	+14	+17	+20
40.1	61.60	60.85	60.87	72.25	65.69	62.93
80.1	56.89	57.26	57.35	74.71	65.25	61.48
120.1	54.11	54.51	54.72	69.64	62.29	60.33
160.1	51.84	52.37	52.53	68.38	62.73	59.37
200.1	50.34	50.79	50.91	65.24	62.17	58.44
230.1	49.25	49.60	49.76	60.91	60.25	57.08
270.1	48.04	48.38	48.52	55.08	56.41	56.04
300.1	47.71	47.98	48.14	52.34	54.69	54.09
340.1	46.97	47.34	47.41	49.57	52.70	52.97
370.1	46.22	46.53	46.69	47.70	50.85	53.00
410.1	45.34	45.67	45.78	46.26	49.10	49.85
440.1	44.82	45.24	45.47	44.63	47.86	50.17
480.1	44.51	44.86	45.12	43.29	46.14	48.46
510.1	43.96	44.45	44.64	43.30	46.39	47.63
550.1	43.80	44.29	44.59	42.51	46.93	49.00
580.1	44.12	44.50	44.65	41.90	45.71	49.25
620.1	44.20	44.31	44.35	41.17	44.43	47.38
650.1	44.10	44.32	44.37	40.35	42.98	45.61
690.1	43.46	43.65	43.74	39.32	40.17	41.93
720.1	43.04	42.98	43.04	40.56	40.93	41.33
760.1	43.23	43.04	42.84	39.77	44.69	44.87
790.1	43.17	42.94	42.60	37.52	42.80	47.33
830.1	42.62	42.74	42.58	35.17	38.49	42.47
860.1	41.84	42.22	42.26	34.23	36.87	40.05
900.1	40.75	41.34	41.57	33.67	35.63	37.87
930.1	40.31	41.06	41.41	33.55	35.09	36.69
970.1	39.30	40.24	40.74	33.22	34.57	35.41
1000.1	38.70	39.68	40.16	32.73	34.13	34.71
1040.1	38.09	39.07	39.54	31.83	33.54	34.64
1070.1	37.75	38.67	39.33	31.78	33.92	36.11
1110.1	37.74	38.67	39.49	32.42	34.50	37.76
1140.1	37.86	38.76	39.43	33.96	35.76	38.77
1180.1	38.58	39.65	40.38	36.42	37.48	39.81
1210.1	39.12	40.10	40.61	38.67	39.42	41.70
1250.1	39.50	40.26	40.42	42.69	44.10	46.54
1280.1	39.28	39.64	39.47	43.72	48.80	51.45
1320.1	39.04	39.18	38.88	40.26	44.19	45.37
1350.1	38.90	39.06	38.86	37.75	40.18	40.82
1390.1	38.75	38.80	38.45	35.56	37.07	37.48
1420.1	38.41	38.24	37.78	34.59	35.70	36.12

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
10.1	40.1	46.34	46.89	47.23
50.1	80.1	34.72	34.62	34.69
90.1	120.1	30.82	30.73	30.54
130.1	160.1	28.50	28.59	28.52
170.1	200.1	26.95	26.98	27.11
200.1	230.1	26.06	26.31	26.38
240.1	270.1	25.42	25.58	25.63
270.1	300.1	25.23	25.35	25.36
310.1	340.1	25.19	25.51	25.68
340.1	370.1	25.02	25.42	25.61
380.1	410.1	24.79	25.00	25.11
410.1	440.1	24.28	24.38	24.50
450.1	480.1	23.88	24.09	24.38
480.1	510.1	23.78	24.19	24.59
520.1	550.1	23.59	24.13	24.70
550.1	580.1	23.16	23.73	24.27
590.1	620.1	22.26	22.64	22.89
620.1	650.1	21.27	21.39	21.51
660.1	690.1	20.11	20.08	20.01
690.1	720.1	19.26	19.17	19.07
730.1	760.1	18.24	18.05	17.85
760.1	790.1	17.68	17.45	17.30
800.1	830.1	17.00	16.69	16.49
830.1	860.1	16.62	16.28	16.03
870.1	900.1	16.16	15.78	15.54
900.1	930.1	15.92	15.58	15.41
940.1	970.1	15.56	15.31	15.15
970.1	1000.1	15.31	15.17	15.03
1010.1	1040.1	14.89	14.88	14.88
1040.1	1070.1	14.68	14.71	14.78
1080.1	1110.1	14.49	14.55	14.68
1110.1	1140.1	14.46	14.49	14.59
1150.1	1180.1	14.69	14.73	14.84
1180.1	1210.1	14.86	14.93	15.02
1220.1	1250.1	15.16	15.28	15.33
1250.1	1280.1	15.25	15.48	15.50
1290.1	1320.1	15.19	15.49	15.59
1320.1	1350.1	14.99	15.36	15.43
1360.1	1390.1	14.80	15.17	15.28
1390.1	1420.1	14.70	15.00	15.09

Frequency Mixer

ZLW-2H+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)				IF (OUT) (MHz)	IF VSWR @LO=1000.1MHz (:1)			
		@LO (dBm)				@LO (dBm)					@LO (dBm)			
		+14	+17	+20		+14	+17	+20	+14		+17	+20		
10.1	40.1	1.13	1.18	1.22	40.1	1.91	2.71	3.65	10.1	2.42	2.00	1.74		
50.1	80.1	1.06	1.05	1.14	80.1	1.75	2.42	3.22	40.1	2.47	2.04	1.78		
90.1	120.1	1.07	1.10	1.17	120.1	1.80	2.51	3.35	60.1	2.51	2.08	1.82		
130.1	160.1	1.06	1.11	1.19	160.1	1.75	2.42	3.21	90.1	2.44	2.02	1.77		
170.1	200.1	1.08	1.14	1.20	200.1	1.71	2.37	3.14	110.1	2.54	2.10	1.84		
200.1	230.1	1.08	1.15	1.21	230.1	1.74	2.41	3.19	140.1	2.56	2.13	1.87		
240.1	270.1	1.09	1.17	1.23	270.1	1.67	2.29	3.00	160.1	2.64	2.20	1.94		
270.1	300.1	1.09	1.17	1.22	300.1	1.67	2.30	3.00	190.1	2.56	2.14	1.89		
310.1	340.1	1.09	1.17	1.22	340.1	1.66	2.27	2.95	210.1	2.66	2.23	1.97		
340.1	370.1	1.08	1.16	1.21	370.1	1.63	2.20	2.84	240.1	2.72	2.29	2.04		
380.1	410.1	1.08	1.15	1.20	410.1	1.62	2.20	2.83	260.1	2.73	2.31	2.06		
410.1	440.1	1.09	1.16	1.21	440.1	1.62	2.17	2.78	290.1	2.73	2.32	2.07		
450.1	480.1	1.10	1.17	1.22	480.1	1.60	2.13	2.71	310.1	2.78	2.36	2.11		
480.1	510.1	1.11	1.19	1.23	510.1	1.61	2.13	2.70	340.1	2.86	2.43	2.18		
520.1	550.1	1.13	1.19	1.23	550.1	1.58	2.09	2.63	360.1	2.78	2.37	2.13		
550.1	580.1	1.14	1.19	1.22	580.1	1.59	2.10	2.63	390.1	2.82	2.40	2.17		
590.1	620.1	1.18	1.21	1.23	620.1	1.60	2.09	2.60	410.1	2.78	2.37	2.14		
620.1	650.1	1.18	1.19	1.21	650.1	1.59	2.07	2.57	440.1	2.89	2.47	2.23		
660.1	690.1	1.18	1.18	1.19	690.1	1.63	2.11	2.61	460.1	2.78	2.36	2.13		
690.1	720.1	1.17	1.17	1.17	720.1	1.64	2.11	2.60	490.1	2.76	2.35	2.12		
730.1	760.1	1.14	1.11	1.11	760.1	1.68	2.15	2.64	510.1	2.76	2.34	2.11		
760.1	790.1	1.13	1.10	1.09	790.1	1.72	2.20	2.69	540.1	2.78	2.35	2.11		
800.1	830.1	1.08	1.05	1.07	830.1	1.76	2.24	2.72	560.1	2.74	2.30	2.05		
830.1	860.1	1.03	1.04	1.09	860.1	1.82	2.30	2.78	590.1	2.65	2.21	1.96		
870.1	900.1	1.06	1.10	1.16	900.1	1.89	2.38	2.87	610.1	2.72	2.27	2.01		
900.1	930.1	1.13	1.19	1.25	930.1	1.95	2.44	2.93	640.1	2.63	2.18	1.91		
940.1	970.1	1.26	1.31	1.37	970.1	2.06	2.56	3.08	660.1	2.67	2.20	1.91		
970.1	1000.1	1.35	1.41	1.47	1000.1	2.13	2.64	3.16	690.1	2.56	2.10	1.81		
1010.1	1040.1	1.54	1.61	1.67	1040.1	2.22	2.74	3.26	710.1	2.59	2.13	1.83		
1040.1	1070.1	1.67	1.75	1.82	1070.1	2.31	2.86	3.41	740.1	2.52	2.05	1.75		
1080.1	1110.1	1.85	1.93	2.01	1110.1	2.42	2.98	3.54	760.1	2.52	2.04	1.73		
1110.1	1140.1	2.03	2.11	2.20	1140.1	2.51	3.07	3.63	790.1	2.46	2.01	1.69		
1150.1	1180.1	2.19	2.26	2.34	1180.1	2.65	3.25	3.86	810.1	2.39	1.94	1.63		
1180.1	1210.1	2.35	2.42	2.50	1210.1	2.75	3.37	4.00	840.1	2.39	1.94	1.63		
1220.1	1250.1	2.61	2.67	2.73	1250.1	2.91	3.54	4.19	860.1	2.29	1.87	1.56		
1250.1	1280.1	2.85	2.89	2.92	1280.1	3.01	3.66	4.33	890.1	2.31	1.90	1.60		
1290.1	1320.1	3.32	3.35	3.35	1320.1	3.23	3.90	4.60	910.1	2.18	1.80	1.53		
1320.1	1350.1	3.73	3.76	3.73	1350.1	3.36	4.05	4.75	940.1	2.18	1.80	1.54		
1360.1	1390.1	4.27	4.30	4.26	1390.1	3.45	4.10	4.83	960.1	2.09	1.77	1.54		
1390.1	1420.1	4.69	4.73	4.69	1420.1	3.62	4.33	5.09	990.1	2.10	1.77	1.55		

REV. X2

ZLW-2H+

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	19	25	17	30	16	28	28	43	37	49
1	-	18	+0	30	11	29	22	37	56	43	52	52
2	62	66	61	65	68	65	60	62	59	73	64	78
3	>90	66	59	73	59	70	57	65	65	78	>78	>78
4	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
5	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
6	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
7	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
8	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
9	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
10	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 500.1 MHz; -5.00 dBm.
LO IN: 530.1 MHz; +17.00 dBm
IF OUT: 30 MHz; -11.5 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	28	34	28	42	27	40	40	55	53	62
1	-	18	+0	28	11	33	23	40	53	48	60	60
2	43	61	52	59	61	57	50	54	51	63	56	74
3	66	52	43	60	43	53	39	50	51	58	71	60
4	>90	78	76	75	75	76	73	74	70	73	73	>88
5	>90	79	65	69	60	69	58	67	56	63	64	83
6	>90	>88	88	>88	87	86	>88	>88	>88	>88	86	88
7	>90	>88	>88	>88	81	84	81	84	76	85	74	78
8	>90	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
9	>90	>88	>88	>88	>88	>88	>88	>88	>88	>88	88	>88
10	>90	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88	>88
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 500.1 MHz; 5.00 dBm.
LO IN: 530.1 MHz; +17.00 dBm
IF OUT: 30 MHz; -1.56 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.