

Frequency Mixer

ZLW-2

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)		
		@LO (dBm)		
		+4	+7	+10
10.1	40.1	5.74	5.72	5.37
50.1	80.1	6.31	6.00	5.77
90.1	120.1	6.31	6.01	5.85
130.1	160.1	6.34	5.98	5.85
170.1	200.1	6.27	6.03	5.89
200.1	230.1	6.36	6.10	5.93
240.1	270.1	6.34	6.07	5.92
270.1	300.1	6.28	6.06	5.92
310.1	340.1	6.33	6.08	5.94
340.1	370.1	6.44	6.17	6.02
380.1	410.1	6.47	6.23	6.03
410.1	440.1	6.47	6.19	6.04
450.1	480.1	6.53	6.29	6.14
480.1	510.1	6.65	6.38	6.23
520.1	550.1	6.76	6.47	6.29
550.1	580.1	6.78	6.52	6.36
590.1	620.1	6.91	6.63	6.44
620.1	650.1	7.08	6.76	6.55
660.1	690.1	7.14	6.82	6.61
690.1	720.1	7.16	6.83	6.62
730.1	760.1	7.26	6.87	6.62
760.1	790.1	7.31	6.86	6.58
800.1	830.1	7.40	6.88	6.57
830.1	860.1	7.38	6.80	6.48
870.1	900.1	7.63	6.98	6.59
900.1	930.1	7.82	7.14	6.71
940.1	970.1	7.93	7.24	6.79
970.1	1000.1	8.10	7.41	6.94
1010.1	1040.1	8.35	7.65	7.14
1040.1	1070.1	8.63	7.93	7.40
1080.1	1110.1	9.16	8.51	7.96
1110.1	1140.1	9.48	8.92	8.41
1150.1	1180.1	9.77	9.38	9.01
1180.1	1210.1	9.92	9.59	9.31
1220.1	1250.1	9.98	9.68	9.46
1250.1	1280.1	10.04	9.75	9.55
1290.1	1320.1	10.34	10.04	9.85
1320.1	1350.1	10.51	10.22	10.05
1360.1	1390.1	10.76	10.49	10.31
1390.1	1420.1	11.11	10.84	10.66

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+4	+7	+10
10.1	40.1	15.82	16.68	17.02
50.1	80.1	14.38	15.25	17.86
90.1	120.1	14.68	18.48	21.07
130.1	160.1	16.78	21.01	21.07
170.1	200.1	17.63	20.28	21.05
200.1	230.1	20.82	20.95	21.03
240.1	270.1	20.83	20.96	21.04
270.1	300.1	16.59	20.43	21.04
310.1	340.1	14.78	16.98	19.90
340.1	370.1	14.77	16.16	19.79
380.1	410.1	16.73	18.99	20.98
410.1	440.1	15.81	20.67	20.98
450.1	480.1	17.69	20.86	20.93
480.1	510.1	15.93	17.96	20.89
520.1	550.1	11.55	13.62	16.84
550.1	580.1	10.00	12.35	15.12
590.1	620.1	9.49	11.93	15.56
620.1	650.1	8.66	11.01	14.70
660.1	690.1	7.36	9.60	12.67
690.1	720.1	7.59	9.89	13.23
730.1	760.1	9.24	13.19	18.76
760.1	790.1	11.42	15.94	12.56
800.1	830.1	12.01	12.46	9.82
830.1	860.1	12.63	12.23	10.08
870.1	900.1	11.49	12.93	11.14
900.1	930.1	9.15	11.97	11.63
940.1	970.1	9.24	11.74	12.21
970.1	1000.1	8.97	11.54	12.75
1010.1	1040.1	7.48	9.61	11.69
1040.1	1070.1	6.63	8.37	10.18
1080.1	1110.1	6.29	7.77	9.82
1110.1	1140.1	6.46	7.88	9.83
1150.1	1180.1	6.87	7.79	9.40
1180.1	1210.1	7.45	8.12	9.29
1220.1	1250.1	9.40	9.82	10.57
1250.1	1280.1	11.46	11.62	12.18
1290.1	1320.1	14.97	14.89	14.63
1320.1	1350.1	16.51	16.85	15.96
1360.1	1390.1	17.42	18.38	18.84
1390.1	1420.1	18.14	18.58	18.67

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+1dBm (dB)		
		@LO (dBm)		
		+4	+7	+10
10.1	40.1	0.87	0.61	0.74
50.1	80.1	0.86	0.66	0.48
90.1	120.1	1.03	0.75	0.57
130.1	160.1	0.84	0.64	0.47
170.1	200.1	0.87	0.65	0.48
200.1	230.1	0.86	0.63	0.47
240.1	270.1	0.86	0.64	0.48
270.1	300.1	0.88	0.65	0.51
310.1	340.1	0.76	0.56	0.43
340.1	370.1	0.75	0.55	0.43
380.1	410.1	0.84	0.63	0.51
410.1	440.1	0.75	0.57	0.47
450.1	480.1	0.90	0.70	0.56
480.1	510.1	0.98	0.77	0.62
520.1	550.1	1.09	0.85	0.68
550.1	580.1	1.26	0.99	0.81
590.1	620.1	1.30	1.05	0.89
620.1	650.1	1.36	1.11	0.97
660.1	690.1	1.54	1.26	1.09
690.1	720.1	1.66	1.34	1.15
730.1	760.1	1.73	1.44	1.24
760.1	790.1	1.81	1.52	1.31
800.1	830.1	1.90	1.61	1.36
830.1	860.1	2.02	1.72	1.45
870.1	900.1	1.92	1.68	1.41
900.1	930.1	1.80	1.59	1.34
940.1	970.1	1.80	1.63	1.39
970.1	1000.1	1.75	1.61	1.41
1010.1	1040.1	1.69	1.63	1.53
1040.1	1070.1	1.53	1.56	1.55
1080.1	1110.1	1.20	1.30	1.40
1110.1	1140.1	0.95	1.03	1.15
1150.1	1180.1	0.75	0.69	0.71
1180.1	1210.1	0.75	0.61	0.56
1220.1	1250.1	0.73	0.58	0.48
1250.1	1280.1	0.73	0.54	0.43
1290.1	1320.1	0.60	0.43	0.31
1320.1	1350.1	0.58	0.40	0.29
1360.1	1390.1	0.51	0.33	0.25
1390.1	1420.1	0.39	0.26	0.19

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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)=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)
		+7			+7			+7
490.0	10.1	6.23	10.0	20.1	6.07	990.0	10.1	7.66
480.2	19.9	6.19	70.0	80.1	5.49	970.0	30.1	7.72
470.4	29.7	6.15	130.0	140.1	5.73	950.0	50.1	7.78
460.6	39.5	6.07	190.0	200.1	5.83	930.0	70.1	7.90
450.8	49.3	6.12	250.0	260.1	5.93	910.0	90.1	7.85
441.0	59.1	6.07	310.0	320.1	5.93	890.0	110.1	7.94
431.2	68.9	6.04	350.0	360.1	5.91	870.0	130.1	7.89
421.4	78.7	6.04	410.0	420.1	5.94	850.0	150.1	7.85
411.6	88.5	5.91	450.0	460.1	6.08	830.0	170.1	7.87
401.8	98.3	5.96	510.0	520.1	5.61	810.0	190.1	7.82
392.0	108.1	5.91	550.0	560.1	5.84	790.0	210.1	7.95
382.2	117.9	5.96	610.0	620.1	6.04	770.0	230.1	7.87
372.4	127.7	5.91	650.0	660.1	5.84	750.0	250.1	7.80
362.7	137.4	5.89	710.0	720.1	5.74	730.0	270.1	7.83
352.9	147.2	5.92	750.0	760.1	5.56	710.0	290.1	7.76
343.1	157.0	5.91	810.0	820.1	5.46	690.0	310.1	7.77
333.3	166.8	5.95	850.0	860.1	5.46	670.0	330.1	7.68
323.5	176.6	5.91	910.0	920.1	5.65	650.0	350.1	7.65
313.7	186.4	5.93	950.0	960.1	5.53	630.0	370.1	7.64
303.9	196.2	5.95	1010.0	1020.1	5.46	610.0	390.1	7.59
284.3	215.8	6.00	1050.0	1060.1	5.47	570.0	430.1	7.40
274.5	225.6	5.96	1110.0	1120.1	5.63	550.0	450.1	7.35
254.9	245.2	5.99	1150.0	1160.1	5.64	510.0	490.1	7.33
245.1	255.0	5.92	1210.0	1220.1	5.92	490.0	510.1	7.25
225.5	274.6	5.87	1250.0	1260.1	5.90	450.0	550.1	7.22
215.7	284.4	5.93	1310.0	1320.1	6.09	430.0	570.1	7.19
196.1	304.0	6.06	1350.0	1360.1	6.24	390.0	610.1	7.26
186.3	313.8	6.09	1410.0	1420.1	6.81	370.0	630.1	7.30
166.7	333.4	6.09	1450.0	1460.1	7.53	330.0	670.1	7.17
156.9	343.2	5.99	1510.0	1520.1	7.96	310.0	690.1	7.11
137.3	362.8	6.14	1550.0	1560.1	8.58	270.0	730.1	7.23
127.6	372.5	6.13	1610.0	1620.1	9.22	250.0	750.1	7.21
108.0	392.1	6.10	1650.0	1660.1	9.48	210.0	790.1	7.02
98.2	401.9	6.22	1710.0	1720.1	9.43	190.0	810.1	6.90
78.6	421.5	6.21	1750.0	1760.1	9.52	150.0	850.1	7.02
68.8	431.3	6.19	1810.0	1820.1	9.38	130.0	870.1	7.09
49.2	450.9	6.25	1850.0	1860.1	9.57	90.0	910.1	7.24
39.4	460.7	6.25	1910.0	1920.1	10.00	70.0	930.1	7.39
19.8	480.3	6.29	1950.0	1960.1	10.52	30.0	970.1	7.44
10.0	490.1	6.59	2010.0	2020.1	11.37	10.0	990.1	7.78

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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
40.1	62.99	62.75	65.60	54.24	51.90	50.54
80.1	56.17	57.53	58.62	49.08	46.96	45.65
120.1	52.74	53.98	55.32	45.78	43.93	42.81
160.1	50.14	51.59	52.68	43.78	42.11	40.91
200.1	48.36	49.69	50.71	42.97	41.17	39.77
230.1	46.95	48.17	49.06	41.90	40.07	38.65
270.1	45.62	46.82	47.78	40.60	38.95	37.68
300.1	44.68	45.84	46.71	39.11	37.71	36.50
340.1	43.31	44.33	45.20	37.84	36.61	35.60
370.1	42.34	43.41	44.31	36.37	35.54	34.65
410.1	41.69	42.89	43.91	34.74	34.33	33.99
440.1	41.51	42.53	43.31	33.23	32.68	32.26
480.1	40.91	41.78	42.29	32.32	32.11	31.67
510.1	40.22	41.25	41.76	31.57	31.58	31.23
550.1	39.06	40.33	41.27	30.52	30.81	30.84
580.1	38.16	39.39	40.45	29.57	29.67	29.76
620.1	37.45	38.80	40.00	28.76	28.71	28.60
650.1	36.85	38.40	39.80	28.08	28.07	27.87
690.1	36.39	38.24	39.88	27.10	27.10	26.84
720.1	36.23	38.18	39.82	26.49	26.76	26.58
760.1	35.45	37.44	39.15	25.70	26.32	26.35
790.1	34.93	36.99	38.73	24.94	25.79	26.04
830.1	34.42	36.43	38.16	24.12	25.20	25.86
860.1	33.91	35.82	37.49	23.28	24.39	25.32
900.1	33.81	35.65	37.26	22.60	23.60	24.61
930.1	33.30	35.08	36.66	22.29	23.16	24.08
970.1	32.86	34.54	36.11	22.08	22.95	23.79
1000.1	32.68	34.24	35.77	21.96	22.86	23.70
1040.1	32.15	33.59	35.04	21.77	22.76	23.56
1070.1	31.70	33.01	34.38	21.97	23.07	23.87
1110.1	30.91	32.00	33.15	21.92	23.18	23.98
1140.1	30.58	31.53	32.54	22.05	23.49	24.36
1180.1	30.55	31.33	32.09	22.46	24.06	24.99
1210.1	30.54	31.29	31.96	22.30	24.14	25.28
1250.1	30.77	31.64	32.32	22.44	24.59	26.03
1280.1	30.93	31.90	32.66	22.60	24.90	26.53
1320.1	30.73	31.79	32.61	22.53	24.94	26.75
1350.1	30.79	31.91	32.88	22.81	25.21	27.09
1390.1	30.76	31.94	32.97	23.14	25.57	27.52
1420.1	30.74	32.03	33.15	23.47	25.95	27.95

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+4	+7	+10
10.1	40.1	55.03	55.33	54.89
50.1	80.1	40.62	41.08	41.35
90.1	120.1	36.10	36.49	36.71
130.1	160.1	34.09	34.58	34.93
170.1	200.1	32.52	33.07	33.42
200.1	230.1	31.82	32.49	32.98
240.1	270.1	30.96	31.59	32.03
270.1	300.1	31.14	31.94	32.56
310.1	340.1	30.76	31.84	32.65
340.1	370.1	30.75	31.75	32.50
380.1	410.1	29.97	30.58	31.11
410.1	440.1	30.02	30.67	31.24
450.1	480.1	30.15	31.11	31.98
480.1	510.1	29.91	30.87	31.72
520.1	550.1	28.16	28.36	28.56
550.1	580.1	26.39	26.28	26.03
590.1	620.1	24.69	24.52	24.32
620.1	650.1	23.61	23.38	23.15
660.1	690.1	22.48	22.21	21.97
690.1	720.1	21.82	21.53	21.23
730.1	760.1	21.26	20.95	20.69
760.1	790.1	20.94	20.56	20.35
800.1	830.1	20.87	20.44	20.23
830.1	860.1	21.26	20.80	20.55
870.1	900.1	21.75	21.26	20.91
900.1	930.1	21.81	21.25	20.86
940.1	970.1	21.65	21.02	20.53
970.1	1000.1	21.35	20.66	20.09
1010.1	1040.1	20.37	19.71	19.08
1040.1	1070.1	19.58	18.90	18.34
1080.1	1110.1	18.35	17.82	17.28
1110.1	1140.1	17.35	16.87	16.36
1150.1	1180.1	16.07	15.49	15.03
1180.1	1210.1	15.09	14.52	14.04
1220.1	1250.1	13.95	13.30	12.89
1250.1	1280.1	13.15	12.51	12.08
1290.1	1320.1	12.11	11.57	11.18
1320.1	1350.1	11.39	10.87	10.48
1360.1	1390.1	10.61	10.11	9.72
1390.1	1420.1	10.14	9.68	9.38

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Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)		
		@LO (dBm)		
		+4	+7	+10
10.1	40.1	1.05	1.33	1.30
50.1	80.1	1.01	1.09	1.16
90.1	120.1	1.03	1.10	1.17
130.1	160.1	1.05	1.13	1.19
170.1	200.1	1.07	1.14	1.19
200.1	230.1	1.07	1.14	1.19
240.1	270.1	1.10	1.16	1.21
270.1	300.1	1.10	1.17	1.22
310.1	340.1	1.12	1.19	1.24
340.1	370.1	1.12	1.18	1.23
380.1	410.1	1.11	1.17	1.22
410.1	440.1	1.15	1.21	1.26
450.1	480.1	1.16	1.22	1.27
480.1	510.1	1.16	1.22	1.27
520.1	550.1	1.17	1.24	1.29
550.1	580.1	1.16	1.22	1.27
590.1	620.1	1.14	1.20	1.24
620.1	650.1	1.11	1.16	1.20
660.1	690.1	1.09	1.12	1.16
690.1	720.1	1.10	1.13	1.16
730.1	760.1	1.16	1.17	1.19
760.1	790.1	1.21	1.21	1.23
800.1	830.1	1.31	1.31	1.32
830.1	860.1	1.41	1.40	1.41
870.1	900.1	1.53	1.51	1.51
900.1	930.1	1.66	1.62	1.62
940.1	970.1	1.83	1.78	1.76
970.1	1000.1	1.94	1.88	1.83
1010.1	1040.1	2.14	2.06	2.00
1040.1	1070.1	2.27	2.19	2.11
1080.1	1110.1	2.44	2.36	2.27
1110.1	1140.1	2.65	2.57	2.49
1150.1	1180.1	2.75	2.71	2.65
1180.1	1210.1	2.85	2.82	2.79
1220.1	1250.1	2.94	2.92	2.89
1250.1	1280.1	2.96	2.94	2.92
1290.1	1320.1	3.07	3.05	3.03
1320.1	1350.1	3.14	3.11	3.09
1360.1	1390.1	3.18	3.15	3.12
1390.1	1420.1	3.30	3.27	3.24

LO (MHz)	LO VSWR (:1)		
	@LO (dBm)		
	+4	+7	+10
40.1	1.94	2.97	4.46
80.1	1.80	2.60	3.66
120.1	1.75	2.50	3.48
160.1	1.82	2.62	3.65
200.1	1.85	2.67	3.72
230.1	1.80	2.56	3.54
270.1	1.77	2.48	3.38
300.1	1.84	2.60	3.56
340.1	1.88	2.66	3.63
370.1	1.81	2.50	3.37
410.1	1.78	2.44	3.24
440.1	1.94	2.71	3.64
480.1	1.89	2.58	3.42
510.1	1.89	2.58	3.45
550.1	1.89	2.55	3.37
580.1	1.90	2.56	3.37
620.1	1.94	2.59	3.41
650.1	1.93	2.56	3.33
690.1	1.96	2.59	3.36
720.1	1.98	2.60	3.35
760.1	1.99	2.57	3.30
790.1	2.02	2.61	3.34
830.1	2.06	2.63	3.34
860.1	2.07	2.65	3.34
900.1	2.12	2.70	3.39
930.1	2.14	2.72	3.40
970.1	2.16	2.73	3.42
1000.1	2.17	2.74	3.42
1040.1	2.20	2.78	3.45
1070.1	2.22	2.78	3.45
1110.1	2.23	2.79	3.46
1140.1	2.27	2.82	3.50
1180.1	2.29	2.83	3.49
1210.1	2.30	2.84	3.51
1250.1	2.36	2.90	3.58
1280.1	2.36	2.89	3.55
1320.1	2.42	2.95	3.62
1350.1	2.49	3.01	3.69
1390.1	2.57	3.06	3.72
1420.1	2.66	3.15	3.81

IF (OUT) (MHz)	IF VSWR @LO=1000.1MHz (:1)		
	@LO (dBm)		
	+4	+7	+10
10.1	2.17	1.88	1.66
40.1	2.26	1.95	1.74
60.1	2.23	1.93	1.72
90.1	2.20	1.91	1.70
110.1	2.18	1.88	1.68
140.1	2.28	1.98	1.77
160.1	2.23	1.93	1.73
190.1	2.22	1.92	1.72
210.1	2.23	1.94	1.73
240.1	2.28	1.98	1.78
260.1	2.27	1.97	1.77
290.1	2.25	1.95	1.74
310.1	2.31	2.00	1.78
340.1	2.32	2.01	1.79
360.1	2.37	2.06	1.83
390.1	2.31	2.00	1.78
410.1	2.41	2.10	1.87
440.1	2.40	2.09	1.86
460.1	2.43	2.13	1.90
490.1	2.38	2.09	1.86
510.1	2.47	2.18	1.95
540.1	2.42	2.14	1.92
560.1	2.42	2.15	1.94
590.1	2.36	2.10	1.89
610.1	2.39	2.14	1.94
640.1	2.32	2.07	1.88
660.1	2.29	2.06	1.87
690.1	2.24	2.02	1.84
710.1	2.20	1.99	1.82
740.1	2.14	1.94	1.78
760.1	2.07	1.88	1.72
790.1	2.03	1.84	1.69
810.1	1.95	1.77	1.63
840.1	1.92	1.74	1.60
860.1	1.81	1.63	1.51
890.1	1.78	1.61	1.48
910.1	1.67	1.51	1.39
940.1	1.65	1.49	1.38
960.1	1.54	1.38	1.27
990.1	1.55	1.39	1.29

REV. X2

ZLW-2

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	4	23	11	31	19	39	17	43	36	50
1	-	23	+0	33	10	34	26	43	52	52	52	51
2	79	59	46	60	46	56	45	65	67	69	54	>70
3	>90	64	63	68	66	68	59	>70	>70	>70	>70	>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: 500.1 MHz; -14.00 dBm.
 LO IN: 530.1 MHz; +7.00 dBm
 IF OUT: 30 MHz; -20.42 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	13	31	24	41	30	51	30	57	51	65
1	-	24	+0	32	11	35	27	47	46	58	57	56
2	60	63	38	52	37	54	41	64	>80	65	47	70
3	>90	45	40	54	46	54	40	59	54	58	60	70
4	>90	73	66	64	55	66	53	60	53	68	74	77
5	>90	73	67	74	55	66	57	64	57	65	77	76
6	>90	>80	>80	>80	74	78	71	74	68	78	76	>80
7	>90	>80	>80	>80	78	>80	75	>80	77	>80	73	>80
8	>90	>80	>80	>80	>80	>80	>80	>80	>80	>80	77	80
9	>90	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>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: 500.1 MHz; -4.00 dBm.
 LO IN: 530.1 MHz; +7.00 dBm
 IF OUT: 30 MHz; -10.45 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.