

Frequency Mixer

ZLW-11+

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	6.49	5.98	5.98
70.1	100.1	6.76	6.50	6.33
130.1	160.1	7.00	6.66	6.45
190.1	220.1	7.12	6.75	6.52
250.1	280.1	7.22	6.82	6.53
310.1	340.1	7.34	6.84	6.54
370.1	400.1	7.42	6.84	6.50
430.1	460.1	7.75	7.18	6.84
490.1	520.1	7.89	7.27	6.93
550.1	580.1	7.97	7.18	6.76
610.1	640.1	8.51	7.73	7.24
670.1	700.1	8.30	7.66	7.25
730.1	760.1	7.95	7.46	7.14
790.1	820.1	7.91	7.56	7.33
850.1	880.1	7.78	7.49	7.29
910.1	940.1	7.47	7.22	7.07
970.1	1000.1	7.26	7.01	6.86
1030.1	1060.1	7.09	6.85	6.73
1090.1	1120.1	7.09	6.80	6.66
1150.1	1180.1	7.12	6.80	6.65
1210.1	1240.1	7.37	6.99	6.80
1270.1	1300.1	7.98	7.47	7.17
1330.1	1360.1	8.17	7.62	7.32
1390.1	1420.1	8.35	7.73	7.43
1450.1	1480.1	8.35	7.72	7.37
1510.1	1540.1	8.48	7.88	7.52
1590.1	1620.1	8.47	7.87	7.50
1650.1	1680.1	8.40	7.84	7.45
1730.1	1760.1	8.46	7.90	7.57
1790.1	1820.1	8.71	8.14	7.83
1870.1	1900.1	8.55	8.09	7.83
1930.1	1960.1	8.32	7.83	7.60
2010.1	2040.1	8.15	7.69	7.47
2070.1	2100.1	8.27	7.84	7.63
2150.1	2180.1	8.26	7.83	7.67
2210.1	2240.1	8.21	7.78	7.63
2290.1	2320.1	8.48	8.06	7.89
2350.1	2380.1	8.90	8.42	8.13
2430.1	2460.1	9.07	8.57	8.24
2490.1	2520.1	10.55	10.04	9.74

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+4	+7	+10
10.1	40.1	13.63	13.91	13.98
70.1	100.1	8.50	8.92	9.27
130.1	160.1	6.89	7.40	8.68
190.1	220.1	6.54	7.75	9.66
250.1	280.1	5.87	7.93	10.58
310.1	340.1	6.16	9.35	13.23
370.1	400.1	7.46	10.66	14.13
430.1	460.1	10.14	12.20	13.36
490.1	520.1	11.21	11.71	12.19
550.1	580.1	8.54	11.06	12.35
610.1	640.1	5.85	7.83	9.58
670.1	700.1	5.69	7.18	8.48
730.1	760.1	6.58	7.68	8.80
790.1	820.1	7.22	8.25	9.19
850.1	880.1	7.16	8.09	8.98
910.1	940.1	7.62	8.30	9.10
970.1	1000.1	8.26	8.93	9.49
1030.1	1060.1	8.90	9.44	9.92
1090.1	1120.1	10.96	11.67	12.32
1150.1	1180.1	13.91	15.00	15.56
1210.1	1240.1	20.31	20.51	18.66
1270.1	1300.1	14.12	14.10	15.13
1330.1	1360.1	13.16	13.39	13.36
1390.1	1420.1	11.53	12.61	13.59
1450.1	1480.1	10.34	11.53	12.72
1510.1	1540.1	9.62	10.52	11.68
1590.1	1620.1	9.85	11.16	12.77
1650.1	1680.1	9.81	10.34	11.89
1730.1	1760.1	10.90	11.30	11.58
1790.1	1820.1	10.23	11.28	12.47
1870.1	1900.1	10.18	10.28	10.97
1930.1	1960.1	9.71	10.04	10.63
2010.1	2040.1	9.58	10.20	10.68
2070.1	2100.1	9.40	10.18	10.75
2150.1	2180.1	9.28	10.47	11.28
2210.1	2240.1	8.43	10.21	12.21
2290.1	2320.1	9.28	10.80	12.60
2350.1	2380.1	9.25	10.71	12.14
2430.1	2460.1	10.91	12.05	14.84
2490.1	2520.1	9.36	10.31	11.14

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+1dBm (dB)		
		@LO (dBm)		
		+4	+7	+10
10.1	40.1	0.98	0.90	0.61
70.1	100.1	1.08	0.76	0.57
130.1	160.1	1.05	0.78	0.62
190.1	220.1	1.25	1.01	0.83
250.1	280.1	1.31	1.07	0.89
310.1	340.1	1.51	1.28	1.05
370.1	400.1	1.76	1.58	1.37
430.1	460.1	1.64	1.43	1.23
490.1	520.1	1.75	1.52	1.31
550.1	580.1	1.66	1.55	1.37
610.1	640.1	1.17	1.12	1.00
670.1	700.1	1.24	1.07	0.92
730.1	760.1	1.33	1.12	0.98
790.1	820.1	1.27	1.03	0.85
850.1	880.1	1.23	1.00	0.83
910.1	940.1	1.16	0.93	0.78
970.1	1000.1	1.02	0.83	0.69
1030.1	1060.1	0.86	0.64	0.52
1090.1	1120.1	0.70	0.47	0.36
1150.1	1180.1	0.70	0.45	0.32
1210.1	1240.1	0.82	0.55	0.39
1270.1	1300.1	0.89	0.69	0.53
1330.1	1360.1	0.98	0.82	0.62
1390.1	1420.1	0.86	0.73	0.56
1450.1	1480.1	0.83	0.69	0.56
1510.1	1540.1	0.67	0.53	0.43
1590.1	1620.1	0.64	0.50	0.41
1650.1	1680.1	0.66	0.49	0.40
1730.1	1760.1	0.62	0.45	0.35
1790.1	1820.1	0.48	0.36	0.29
1870.1	1900.1	0.58	0.43	0.35
1930.1	1960.1	0.69	0.52	0.41
2010.1	2040.1	0.75	0.57	0.47
2070.1	2100.1	0.63	0.47	0.40
2150.1	2180.1	0.74	0.57	0.46
2210.1	2240.1	0.84	0.62	0.51
2290.1	2320.1	0.81	0.59	0.47
2350.1	2380.1	0.79	0.57	0.46
2430.1	2460.1	0.95	0.65	0.52
2490.1	2520.1	1.27	1.00	0.82

REV. X2

ZLW-11+

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1000.1MHz (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)=2000.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+7			+7			+7
990.0	10.1	12.02	10.0	20.1	6.79	870.0	1130.1	10.50
970.0	30.1	11.74	29.6	39.7	5.82	850.0	1150.1	10.20
950.0	50.1	11.46	49.2	59.3	6.15	830.0	1170.1	10.02
930.0	70.1	11.12	68.8	78.9	5.90	810.0	1190.1	9.88
910.0	90.1	10.81	88.5	98.6	5.63	790.0	1210.1	9.80
890.0	110.1	10.50	108.1	118.2	5.45	770.0	1230.1	9.64
870.0	130.1	10.21	127.7	137.8	5.43	750.0	1250.1	9.54
850.0	150.1	9.88	147.3	157.4	5.34	730.0	1270.1	9.42
830.0	170.1	9.66	166.9	177.0	5.81	710.0	1290.1	9.28
810.0	190.1	9.43	186.5	196.6	5.79	690.0	1310.1	9.20
790.0	210.1	9.21	206.2	216.3	5.33	670.0	1330.1	9.07
770.0	230.1	8.90	225.8	235.9	5.12	650.0	1350.1	8.95
750.0	250.1	8.42	245.4	255.5	5.30	630.0	1370.1	8.91
730.0	270.1	8.52	265.0	275.1	5.50	610.0	1390.1	8.81
710.0	290.1	8.27	304.2	314.3	5.21	590.0	1410.1	8.69
690.0	310.1	8.20	323.8	333.9	5.02	570.0	1430.1	8.57
670.0	330.1	8.01	363.1	373.2	5.46	550.0	1450.1	8.46
650.0	350.1	7.83	382.7	392.8	5.16	530.0	1470.1	8.36
630.0	370.1	7.69	421.9	432.0	5.46	510.0	1490.1	8.28
610.0	390.1	7.47	441.5	451.6	5.66	490.0	1510.1	8.01
570.0	430.1	7.43	480.8	490.9	5.66	470.0	1530.1	8.05
550.0	450.1	7.53	500.4	510.5	5.46	450.0	1550.1	7.97
510.0	490.1	7.56	539.6	549.7	5.79	430.0	1570.1	7.92
490.0	510.1	7.20	559.2	569.3	6.13	410.0	1590.1	7.86
450.0	550.1	7.29	598.5	608.6	5.82	390.0	1610.1	7.81
430.0	570.1	7.29	618.1	628.2	6.07	370.0	1630.1	7.80
390.0	610.1	7.41	657.3	667.4	6.18	350.0	1650.1	7.76
370.0	630.1	7.32	676.9	687.0	6.30	330.0	1670.1	7.70
330.0	670.1	7.00	716.2	726.3	6.56	310.0	1690.1	7.63
310.0	690.1	6.89	735.8	745.9	7.06	290.0	1710.1	7.58
270.0	730.1	6.76	775.0	785.1	7.32	270.0	1730.1	7.55
250.0	750.1	6.70	794.6	804.7	7.43	250.0	1750.1	7.55
210.0	790.1	6.72	833.8	843.9	7.55	210.0	1790.1	7.52
190.0	810.1	6.56	853.5	863.6	8.06	190.0	1810.1	7.48
150.0	850.1	6.45	892.7	902.8	8.60	150.0	1850.1	7.37
130.0	870.1	6.45	912.3	922.4	9.02	130.0	1870.1	7.34
90.0	910.1	6.42	951.5	961.6	9.68	90.0	1910.1	7.38
70.0	930.1	6.50	971.2	981.3	9.94	70.0	1930.1	7.39
30.0	970.1	6.87	1010.4	1020.5	10.61	30.0	1970.1	7.65
10.0	990.1	7.54	1030.0	1040.1	10.84	10.0	1990.1	8.13

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	63.85	67.17	71.21	55.71	57.03	58.51
100.1	60.30	62.95	65.46	51.80	53.13	54.87
160.1	57.79	59.72	61.68	48.78	50.39	52.80
220.1	54.81	56.95	59.02	46.10	48.31	51.03
280.1	53.03	54.91	56.87	44.48	47.18	49.66
340.1	51.68	54.21	56.61	43.56	45.99	47.35
400.1	49.64	51.24	53.18	43.89	45.85	45.82
460.1	49.93	50.94	51.98	44.04	45.02	43.91
520.1	50.55	52.67	54.59	44.35	43.81	41.81
580.1	51.31	53.40	55.43	46.31	43.38	40.31
640.1	49.99	51.06	52.36	48.57	42.44	39.08
700.1	50.41	51.57	53.23	48.73	41.06	37.78
760.1	51.12	52.69	54.52	49.72	41.07	37.56
820.1	56.92	61.50	66.00	57.31	42.44	38.03
880.1	71.97	59.55	54.61	66.60	43.02	38.21
940.1	53.99	66.94	58.85	52.26	42.95	38.57
1000.1	54.97	65.38	56.08	47.44	42.98	38.85
1060.1	52.78	53.06	51.08	45.31	43.86	39.85
1120.1	49.49	50.78	48.41	43.73	45.66	40.86
1180.1	46.95	48.30	48.87	42.18	47.12	42.11
1240.1	47.75	46.74	46.22	41.53	49.60	42.85
1300.1	45.20	44.50	44.63	40.96	53.63	42.53
1360.1	43.67	43.86	43.16	41.98	54.31	39.96
1420.1	41.53	43.89	45.48	47.58	43.45	36.09
1480.1	41.03	43.54	46.32	46.88	39.52	35.88
1540.1	40.37	42.16	43.89	41.11	38.50	36.83
1620.1	39.05	40.28	41.74	38.66	37.24	36.24
1680.1	38.39	39.37	40.23	37.53	35.90	34.54
1760.1	37.98	38.75	39.43	35.98	33.74	32.25
1820.1	37.95	38.26	38.72	34.64	32.09	30.54
1900.1	36.93	37.14	36.77	32.52	29.88	28.03
1960.1	36.46	36.30	35.49	31.47	28.40	26.57
2040.1	36.12	35.58	34.47	29.74	27.07	25.13
2100.1	35.72	34.79	33.55	28.25	26.00	24.49
2180.1	34.66	33.83	32.58	26.46	25.11	24.05
2240.1	34.13	32.98	31.35	25.42	24.70	23.76
2320.1	34.29	33.41	32.36	24.76	25.10	24.93
2380.1	37.23	35.60	34.29	24.65	26.22	27.13
2460.1	29.39	32.14	34.38	23.07	26.47	30.60
2520.1	16.62	18.20	19.86	16.89	17.84	18.73

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+4	+7	+10
10.1	40.1	14.98	16.08	15.82
70.1	100.1	20.25	20.59	20.81
130.1	160.1	21.78	22.08	22.34
190.1	220.1	22.70	22.97	23.23
250.1	280.1	23.35	23.62	23.90
310.1	340.1	24.01	24.38	24.63
370.1	400.1	24.26	24.43	24.65
430.1	460.1	25.35	25.17	24.99
490.1	520.1	26.72	26.63	26.40
550.1	580.1	27.19	27.51	27.78
610.1	640.1	27.64	27.65	27.94
670.1	700.1	27.68	27.08	26.89
730.1	760.1	28.04	27.46	27.13
790.1	820.1	31.99	31.07	30.50
850.1	880.1	37.26	36.39	35.53
910.1	940.1	36.92	37.80	38.18
970.1	1000.1	38.75	40.36	41.29
1030.1	1060.1	43.28	44.22	43.99
1090.1	1120.1	38.96	36.98	35.78
1150.1	1180.1	32.31	30.99	30.19
1210.1	1240.1	28.97	28.24	27.77
1270.1	1300.1	27.78	27.29	27.01
1330.1	1360.1	25.28	25.19	25.08
1390.1	1420.1	21.54	21.55	21.60
1450.1	1480.1	19.10	19.20	19.30
1510.1	1540.1	19.82	20.04	20.19
1590.1	1620.1	22.45	22.64	22.71
1650.1	1680.1	23.89	24.08	24.03
1730.1	1760.1	25.02	25.07	24.83
1790.1	1820.1	25.57	25.22	24.87
1870.1	1900.1	25.01	24.24	23.59
1930.1	1960.1	23.56	22.61	21.83
2010.1	2040.1	20.83	19.92	19.19
2070.1	2100.1	18.95	18.08	17.52
2150.1	2180.1	16.71	15.93	15.42
2210.1	2240.1	15.14	14.35	13.82
2290.1	2320.1	13.41	12.80	12.38
2350.1	2380.1	12.63	12.21	11.96
2430.1	2460.1	12.03	11.93	11.86
2490.1	2520.1	9.01	9.23	9.42

Frequency Mixer

ZLW-11+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=2000.1MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+4	+7	+10		+4	+7	+10		+4	+7	+10
10.1	40.1	1.39	1.35	1.34	40.1	1.81	2.75	4.09	10.1	1.95	2.05	2.15
70.1	100.1	1.07	1.02	1.07	100.1	1.77	2.59	3.69	30.1	1.60	1.78	1.93
130.1	160.1	1.17	1.10	1.07	160.1	1.74	2.45	3.40	50.1	1.49	1.66	1.81
190.1	220.1	1.33	1.26	1.22	220.1	1.65	2.26	3.09	70.1	1.47	1.66	1.82
250.1	280.1	1.47	1.40	1.36	280.1	1.63	2.26	3.12	90.1	1.45	1.63	1.78
310.1	340.1	1.73	1.65	1.58	340.1	1.63	2.25	3.09	110.1	1.44	1.61	1.76
370.1	400.1	2.13	2.00	1.92	400.1	1.59	2.09	2.80	130.1	1.43	1.59	1.74
430.1	460.1	2.56	2.42	2.32	460.1	1.53	1.95	2.59	150.1	1.40	1.57	1.71
490.1	520.1	2.92	2.72	2.59	520.1	1.50	1.96	2.63	170.1	1.43	1.59	1.73
550.1	580.1	3.35	3.04	2.86	580.1	1.44	1.85	2.48	190.1	1.41	1.56	1.69
610.1	640.1	3.65	3.37	3.16	640.1	1.37	1.76	2.36	210.1	1.44	1.58	1.71
670.1	700.1	3.64	3.42	3.25	700.1	1.28	1.70	2.30	230.1	1.42	1.55	1.66
730.1	760.1	3.55	3.39	3.26	760.1	1.23	1.63	2.21	250.1	1.42	1.55	1.67
790.1	820.1	3.34	3.27	3.18	820.1	1.22	1.62	2.19	270.1	1.44	1.56	1.66
850.1	880.1	3.20	3.14	3.10	880.1	1.22	1.63	2.20	290.1	1.43	1.54	1.64
910.1	940.1	2.85	2.82	2.81	940.1	1.24	1.66	2.23	310.1	1.48	1.59	1.68
970.1	1000.1	2.63	2.59	2.55	1000.1	1.28	1.72	2.29	330.1	1.46	1.54	1.63
1030.1	1060.1	2.46	2.40	2.38	1060.1	1.32	1.77	2.35	350.1	1.48	1.57	1.66
1090.1	1120.1	2.18	2.11	2.07	1120.1	1.38	1.84	2.44	370.1	1.50	1.58	1.67
1150.1	1180.1	2.03	1.92	1.86	1180.1	1.44	1.89	2.48	390.1	1.52	1.60	1.68
1210.1	1240.1	2.06	1.92	1.84	1240.1	1.53	1.97	2.57	430.1	1.53	1.60	1.67
1270.1	1300.1	2.43	2.26	2.14	1300.1	1.60	2.03	2.63	450.1	1.56	1.63	1.71
1330.1	1360.1	2.63	2.45	2.35	1360.1	1.68	2.07	2.66	490.1	1.51	1.58	1.65
1390.1	1420.1	2.72	2.55	2.45	1420.1	1.75	2.13	2.71	510.1	1.68	1.80	1.91
1450.1	1480.1	2.71	2.56	2.45	1480.1	1.81	2.13	2.66	550.1	1.83	1.94	2.03
1510.1	1540.1	2.78	2.64	2.53	1540.1	1.85	2.11	2.59	570.1	1.86	1.96	2.05
1590.1	1620.1	2.81	2.67	2.55	1620.1	1.88	2.05	2.48	610.1	1.92	2.01	2.09
1650.1	1680.1	2.76	2.63	2.51	1680.1	1.88	1.97	2.34	630.1	1.96	2.07	2.15
1730.1	1760.1	2.92	2.77	2.65	1760.1	1.84	1.80	2.09	670.1	2.02	2.13	2.22
1790.1	1820.1	3.06	2.91	2.80	1820.1	1.75	1.62	1.85	690.1	2.06	2.17	2.27
1870.1	1900.1	3.01	2.86	2.76	1900.1	1.65	1.39	1.54	730.1	2.10	2.23	2.35
1930.1	1960.1	2.98	2.79	2.66	1960.1	1.60	1.21	1.36	750.1	2.12	2.25	2.38
2010.1	2040.1	2.88	2.68	2.54	2040.1	1.51	1.06	1.28	790.1	2.17	2.32	2.47
2070.1	2100.1	2.67	2.47	2.34	2100.1	1.46	1.21	1.40	810.1	2.20	2.36	2.52
2150.1	2180.1	2.39	2.17	2.02	2180.1	1.50	1.48	1.74	850.1	2.33	2.52	2.70
2210.1	2240.1	2.24	2.00	1.84	2240.1	1.60	1.76	2.11	870.1	2.41	2.62	2.81
2290.1	2320.1	1.98	1.76	1.60	2320.1	1.82	2.15	2.59	910.1	2.63	2.86	3.07
2350.1	2380.1	1.80	1.64	1.49	2380.1	2.00	2.42	2.92	930.1	2.77	3.00	3.21
2430.1	2460.1	1.55	1.42	1.33	2460.1	2.33	2.89	3.50	970.1	3.07	3.31	3.53
2490.1	2520.1	1.37	1.40	1.46	2520.1	3.14	3.78	4.48	990.1	3.26	3.50	3.71

REV. X2

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	15	33	23	53	14	40	43	45	37	53
1	-	37	+0	36	21	34	59	37	43	39	45	44
2	80	>69	55	61	56	>69	61	>69	49	67	>69	>69
3	>90	>69	68	69	57	>69	67	>69	>69	69	>69	68
4	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
5	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
6	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
7	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
8	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
9	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
10	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1000.1 MHz; -14.00 dBm.
LO IN: 1030.1 MHz; +7.00 dBm
IF OUT: 30 MHz; -21.1 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	24	43	33	67	26	56	56	62	53	62
1	-	43	+0	35	21	35	59	43	50	47	56	55
2	60	67	47	58	49	66	56	70	44	65	70	73
3	>90	64	54	52	39	52	54	56	78	54	64	56
4	>90	>79	77	79	71	64	68	74	74	78	58	74
5	>90	78	>79	70	71	66	55	66	63	73	>79	70
6	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
7	>90	>79	>79	>79	>79	>79	>79	78	69	>79	78	>79
8	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
9	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
10	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1000.1 MHz; -4.00 dBm.
LO IN: 1030.1 MHz; +7.00 dBm
IF OUT: 30 MHz; -11.07 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.