

Frequency Mixer

ZX05-2+

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	7.76	7.03	7.23	10.1	40.1	16.01	19.38	19.80	10.1	40.1	0.50	0.41	0.19
60.1	90.1	7.66	7.21	6.95	60.1	90.1	18.57	20.39	20.52	60.1	90.1	0.42	0.25	0.15
110.1	140.1	7.56	7.12	6.96	110.1	140.1	19.72	20.44	20.52	110.1	140.1	0.43	0.26	0.16
160.1	190.1	7.59	7.16	6.96	160.1	190.1	19.62	20.42	20.52	160.1	190.1	0.47	0.29	0.18
210.1	240.1	7.43	7.09	6.92	210.1	240.1	20.29	20.45	20.54	210.1	240.1	0.49	0.28	0.15
260.1	290.1	7.44	7.12	6.95	260.1	290.1	20.28	20.44	20.53	260.1	290.1	0.51	0.29	0.18
310.1	340.1	7.38	7.07	6.92	310.1	340.1	20.31	20.47	20.54	310.1	340.1	0.49	0.29	0.19
360.1	390.1	7.45	7.12	6.96	360.1	390.1	20.28	20.44	20.52	360.1	390.1	0.48	0.29	0.18
410.1	440.1	7.38	7.11	6.93	410.1	440.1	20.31	20.45	20.54	410.1	440.1	0.46	0.29	0.19
460.1	490.1	7.44	7.14	6.96	460.1	490.1	20.28	20.03	19.43	460.1	490.1	0.50	0.31	0.21
510.1	540.1	7.43	7.13	6.96	510.1	540.1	19.21	20.43	20.52	510.1	540.1	0.47	0.31	0.22
560.1	590.1	7.48	7.18	7.00	560.1	590.1	19.84	20.41	20.50	560.1	590.1	0.50	0.31	0.22
610.1	640.1	7.50	7.18	6.97	610.1	640.1	15.32	16.03	16.78	610.1	640.1	0.49	0.32	0.21
660.1	690.1	7.59	7.25	7.04	660.1	690.1	20.20	16.39	15.95	660.1	690.1	0.52	0.35	0.24
710.1	740.1	7.64	7.32	7.10	710.1	740.1	19.17	20.34	17.40	710.1	740.1	0.52	0.34	0.23
760.1	790.1	7.70	7.39	7.18	760.1	790.1	19.01	20.30	20.41	760.1	790.1	0.59	0.37	0.25
810.1	840.1	7.72	7.43	7.23	810.1	840.1	19.39	20.28	20.35	810.1	840.1	0.66	0.41	0.27
860.1	890.1	7.74	7.44	7.23	860.1	890.1	19.37	20.28	20.39	860.1	890.1	0.78	0.49	0.33
910.1	940.1	7.77	7.44	7.24	910.1	940.1	18.12	18.21	18.15	910.1	940.1	0.87	0.54	0.37
960.1	990.1	7.85	7.49	7.29	960.1	990.1	17.94	16.23	15.84	960.1	990.1	0.94	0.61	0.41
1010.1	1040.1	8.04	7.58	7.35	1010.1	1040.1	12.03	20.21	16.04	1010.1	1040.1	0.95	0.66	0.45
1060.1	1090.1	8.24	7.70	7.41	1060.1	1090.1	10.35	20.07	17.79	1060.1	1090.1	0.93	0.72	0.50
1110.1	1140.1	8.49	7.88	7.49	1110.1	1140.1	8.32	14.25	20.25	1110.1	1140.1	0.92	0.76	0.57
1160.1	1190.1	8.70	8.09	7.60	1160.1	1190.1	7.67	11.42	20.20	1160.1	1190.1	0.91	0.76	0.62
1210.1	1240.1	8.94	8.33	7.80	1210.1	1240.1	7.52	9.92	16.37	1210.1	1240.1	0.91	0.75	0.63
1260.1	1290.1	9.15	8.54	8.01	1260.1	1290.1	7.99	9.87	13.83	1260.1	1290.1	0.88	0.73	0.62
1310.1	1340.1	9.47	8.84	8.32	1310.1	1340.1	8.39	10.40	12.81	1310.1	1340.1	0.81	0.67	0.58
1360.1	1390.1	9.69	9.08	8.53	1360.1	1390.1	7.76	9.05	10.63	1360.1	1390.1	0.73	0.60	0.54
1410.1	1440.1	9.84	9.18	8.60	1410.1	1440.1	7.43	8.74	10.87	1410.1	1440.1	0.77	0.66	0.61
1460.1	1490.1	9.95	9.22	8.60	1460.1	1490.1	7.73	9.89	13.43	1460.1	1490.1	0.84	0.76	0.72
1510.1	1540.1	10.10	9.33	8.78	1510.1	1540.1	9.38	12.81	16.13	1510.1	1540.1	0.91	0.84	0.76
1560.1	1590.1	10.18	9.48	8.97	1560.1	1590.1	11.06	14.06	16.07	1560.1	1590.1	0.98	0.90	0.83
1610.1	1640.1	10.62	10.00	9.53	1610.1	1640.1	11.52	13.95	15.55	1610.1	1640.1	0.83	0.78	0.77
1660.1	1690.1	10.93	10.45	10.05	1660.1	1690.1	11.06	12.93	14.48	1660.1	1690.1	0.65	0.59	0.62
1720.1	1750.1	11.38	11.11	10.88	1720.1	1750.1	11.66	12.35	13.81	1720.1	1750.1	0.44	0.31	0.29
1770.1	1800.1	11.29	11.08	10.92	1770.1	1800.1	13.24	13.19	13.76	1770.1	1800.1	0.51	0.32	0.24
1830.1	1860.1	11.59	11.39	11.25	1830.1	1860.1	14.97	15.41	15.76	1830.1	1860.1	0.44	0.27	0.20
1880.1	1910.1	11.80	11.57	11.42	1880.1	1910.1	13.84	16.68	17.08	1880.1	1910.1	0.49	0.28	0.20
1940.1	1970.1	12.27	12.00	11.87	1940.1	1970.1	13.68	17.04	18.06	1940.1	1970.1	0.39	0.23	0.16
1990.1	2020.1	12.75	12.42	12.31	1990.1	2020.1	13.13	16.05	17.85	1990.1	2020.1	0.36	0.22	0.15

REV. X2

ZX05-2+

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Page 1 of 5



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Frequency Mixer

ZX05-2+

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	7.20	10.0	20.1	7.39	990.0	10.1	7.55
477.7	22.4	7.11	70.0	80.1	7.12	970.0	30.1	7.41
465.4	34.7	7.04	130.0	140.1	7.24	950.0	50.1	7.40
453.1	47.0	7.13	190.0	200.1	7.45	930.0	70.1	7.37
440.8	59.3	7.10	250.0	260.1	7.42	910.0	90.1	7.35
428.5	71.6	7.09	310.0	320.1	7.44	890.0	110.1	7.31
416.2	83.9	7.08	370.0	380.1	7.24	870.0	130.1	7.23
403.8	96.3	7.10	430.0	440.1	7.38	850.0	150.1	7.23
391.5	108.6	7.02	490.0	500.1	7.46	830.0	170.1	7.21
379.2	120.9	6.98	550.0	560.1	7.41	810.0	190.1	7.18
366.9	133.2	6.91	610.0	620.1	7.51	790.0	210.1	7.21
354.6	145.5	6.94	670.0	680.1	7.76	770.0	230.1	7.18
342.3	157.8	6.93	730.0	740.1	7.43	750.0	250.1	7.13
330.0	170.1	6.95	790.0	800.1	7.73	730.0	270.1	7.18
317.7	182.4	6.94	850.0	860.1	7.61	710.0	290.1	7.18
305.4	194.7	6.93	910.0	920.1	7.36	690.0	310.1	7.17
293.1	207.0	6.92	970.0	980.1	7.41	670.0	330.1	7.18
280.8	219.3	6.90	1030.0	1040.1	7.45	650.0	350.1	7.21
268.5	231.6	6.91	1090.0	1100.1	7.18	630.0	370.1	7.19
256.2	243.9	6.91	1150.0	1160.1	7.38	610.0	390.1	7.21
243.8	256.3	6.87	1210.0	1220.1	7.72	570.0	430.1	7.19
231.5	268.6	6.86	1270.0	1280.1	7.65	550.0	450.1	7.20
219.2	280.9	6.87	1330.0	1340.1	7.78	510.0	490.1	7.22
206.9	293.2	6.94	1390.0	1400.1	7.94	490.0	510.1	7.20
194.6	305.5	6.96	1450.0	1460.1	7.54	450.0	550.1	7.27
182.3	317.8	6.95	1510.0	1520.1	7.47	430.0	570.1	7.27
170.0	330.1	6.97	1590.0	1600.1	7.28	390.0	610.1	7.28
157.7	342.4	6.93	1650.0	1660.1	7.25	370.0	630.1	7.27
145.4	354.7	6.98	1730.0	1740.1	7.24	330.0	670.1	7.24
133.1	367.0	6.98	1790.0	1800.1	7.39	310.0	690.1	7.25
120.8	379.3	7.03	1870.0	1880.1	7.57	270.0	730.1	7.35
108.5	391.6	7.04	1930.0	1940.1	8.11	250.0	750.1	7.41
96.2	403.9	7.04	2010.0	2020.1	8.54	210.0	790.1	7.40
83.8	416.3	7.00	2070.0	2080.1	8.53	190.0	810.1	7.40
71.5	428.6	7.02	2150.0	2160.1	9.14	150.0	850.1	7.45
59.2	440.9	7.03	2210.0	2220.1	9.57	130.0	870.1	7.46
46.9	453.2	7.08	2290.0	2300.1	10.18	90.0	910.1	7.39
34.6	465.5	7.05	2350.0	2360.1	10.78	70.0	930.1	7.37
22.3	477.8	7.10	2430.0	2440.1	11.43	30.0	970.1	7.41
10.0	490.1	7.23	2490.0	2500.1	11.88	10.0	990.1	7.59



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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	60.28	60.14	60.92	56.03	57.21	57.48
90.1	55.86	56.15	56.95	55.14	54.97	54.39
140.1	52.54	53.13	53.77	53.06	52.42	51.51
190.1	49.94	50.72	51.53	51.98	51.40	50.37
240.1	48.17	49.15	49.82	50.41	49.83	48.70
290.1	46.59	47.55	48.24	48.80	48.62	47.87
340.1	45.40	46.40	47.04	47.07	47.29	46.65
390.1	44.23	45.21	45.91	45.59	46.14	45.79
440.1	43.36	44.38	45.15	44.31	45.11	45.46
490.1	42.33	43.32	44.04	43.11	44.42	44.39
540.1	41.67	42.76	43.56	41.70	43.31	44.78
590.1	40.93	41.98	42.93	40.89	41.81	42.49
640.1	40.53	41.51	42.30	40.38	42.13	42.40
690.1	39.99	41.12	41.90	39.40	42.12	44.55
740.1	39.40	40.96	42.07	38.41	40.79	43.69
790.1	38.49	39.90	41.18	37.82	39.88	42.32
840.1	37.94	39.24	40.38	37.38	38.89	40.20
890.1	37.46	38.88	40.08	37.61	40.03	41.11
940.1	36.88	38.39	39.75	36.66	40.05	43.38
990.1	36.63	38.26	39.68	35.58	38.56	42.14
1040.1	36.75	38.62	40.03	34.89	37.56	40.86
1090.1	36.09	38.12	39.65	34.67	37.14	39.95
1140.1	35.37	37.36	39.03	34.91	37.26	39.31
1190.1	34.95	36.85	38.56	35.11	37.37	38.74
1240.1	34.59	36.39	38.12	35.29	37.52	38.44
1290.1	34.32	35.97	37.57	35.95	38.35	39.98
1340.1	34.06	35.52	36.87	37.54	40.55	43.72
1390.1	33.90	35.18	36.34	39.45	43.52	47.31
1440.1	33.91	35.18	36.39	41.59	44.77	44.63
1490.1	34.12	35.49	36.89	39.14	38.88	37.49
1540.1	34.52	36.16	37.85	36.14	34.90	33.65
1590.1	35.09	36.97	38.87	32.83	31.68	30.70
1640.1	35.80	37.86	39.94	30.51	29.50	28.80
1690.1	37.42	39.86	42.20	28.69	27.75	27.16
1750.1	41.48	45.55	48.70	27.63	26.60	25.98
1800.1	45.54	54.19	51.79	27.12	26.00	25.26
1860.1	49.67	56.10	46.08	26.56	25.41	24.61
1910.1	48.43	49.66	42.90	26.17	24.96	24.06
1970.1	45.38	44.38	39.71	25.33	24.34	23.43
2020.1	42.17	42.19	38.19	24.78	24.03	23.16

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+4	+7	+10
10.1	40.1	50.27	50.19	48.71
60.1	90.1	37.47	37.12	37.16
110.1	140.1	32.53	32.62	32.55
160.1	190.1	29.61	29.69	29.67
210.1	240.1	27.68	27.69	27.73
260.1	290.1	26.30	26.40	26.43
310.1	340.1	25.28	25.34	25.45
360.1	390.1	24.45	24.53	24.65
410.1	440.1	24.01	24.23	24.32
460.1	490.1	23.57	23.80	24.00
510.1	540.1	23.23	23.50	23.75
560.1	590.1	23.03	23.29	23.46
610.1	640.1	22.92	23.19	23.45
660.1	690.1	22.82	23.27	23.61
710.1	740.1	22.61	23.10	23.56
760.1	790.1	22.10	22.57	22.99
810.1	840.1	21.44	21.91	22.30
860.1	890.1	20.49	20.91	21.23
910.1	940.1	19.62	19.96	20.22
960.1	990.1	18.84	19.07	19.26
1010.1	1040.1	18.08	18.21	18.37
1060.1	1090.1	17.60	17.71	17.87
1110.1	1140.1	17.24	17.37	17.52
1160.1	1190.1	17.10	17.23	17.42
1210.1	1240.1	17.12	17.25	17.44
1260.1	1290.1	17.11	17.23	17.32
1310.1	1340.1	17.20	17.32	17.41
1360.1	1390.1	17.36	17.55	17.67
1410.1	1440.1	17.54	17.85	18.09
1460.1	1490.1	17.63	18.05	18.33
1510.1	1540.1	17.58	17.99	18.15
1560.1	1590.1	17.25	17.54	17.60
1610.1	1640.1	16.62	16.78	16.78
1660.1	1690.1	15.78	15.81	15.74
1720.1	1750.1	14.65	14.49	14.31
1770.1	1800.1	13.78	13.45	13.19
1830.1	1860.1	12.76	12.30	11.94
1880.1	1910.1	12.08	11.48	11.04
1940.1	1970.1	11.18	10.48	10.01
1990.1	2020.1	10.59	9.76	9.25

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1010.1MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+4	+7	+10		+4	+7	+10		+4	+7	+10
10.1	40.1	1.53	1.44	1.61	40.1	3.26	8.64	8.72	10.1	1.69	1.45	1.30
60.1	90.1	1.31	1.41	1.48	90.1	2.05	3.11	4.86	40.1	1.68	1.45	1.30
110.1	140.1	1.32	1.40	1.47	140.1	2.08	3.12	4.66	70.1	1.70	1.47	1.33
160.1	190.1	1.29	1.38	1.45	190.1	1.92	2.74	3.88	100.1	1.66	1.44	1.30
210.1	240.1	1.32	1.41	1.46	240.1	1.97	2.84	3.99	120.1	1.71	1.49	1.35
260.1	290.1	1.32	1.40	1.46	290.1	1.90	2.67	3.67	150.1	1.67	1.45	1.31
310.1	340.1	1.35	1.42	1.48	340.1	1.97	2.76	3.75	170.1	1.70	1.49	1.36
360.1	390.1	1.34	1.42	1.47	390.1	1.95	2.68	3.58	200.1	1.69	1.47	1.35
410.1	440.1	1.37	1.44	1.50	440.1	2.01	2.75	3.66	220.1	1.73	1.52	1.40
460.1	490.1	1.38	1.45	1.52	490.1	2.00	2.69	3.53	250.1	1.69	1.48	1.36
510.1	540.1	1.40	1.46	1.52	540.1	2.07	2.77	3.60	270.1	1.72	1.51	1.40
560.1	590.1	1.40	1.47	1.52	590.1	2.08	2.74	3.53	300.1	1.71	1.51	1.40
610.1	640.1	1.44	1.51	1.57	640.1	2.14	2.78	3.53	320.1	1.73	1.54	1.44
660.1	690.1	1.45	1.53	1.59	690.1	2.16	2.79	3.51	350.1	1.73	1.54	1.44
710.1	740.1	1.48	1.55	1.62	740.1	2.23	2.86	3.58	370.1	1.73	1.55	1.46
760.1	790.1	1.50	1.56	1.61	790.1	2.25	2.85	3.56	400.1	1.73	1.56	1.47
810.1	840.1	1.53	1.59	1.64	840.1	2.29	2.87	3.55	420.1	1.75	1.58	1.50
860.1	890.1	1.54	1.61	1.66	890.1	2.32	2.86	3.51	450.1	1.76	1.60	1.53
910.1	940.1	1.57	1.65	1.70	940.1	2.39	2.92	3.56	470.1	1.74	1.59	1.52
960.1	990.1	1.56	1.63	1.68	990.1	2.46	2.98	3.59	500.1	1.76	1.61	1.55
1010.1	1040.1	1.57	1.63	1.69	1040.1	2.53	3.05	3.65	520.1	1.77	1.64	1.58
1060.1	1090.1	1.59	1.65	1.70	1090.1	2.59	3.10	3.67	550.1	1.77	1.65	1.60
1110.1	1140.1	1.64	1.68	1.73	1140.1	2.62	3.16	3.73	570.1	1.76	1.64	1.59
1160.1	1190.1	1.75	1.77	1.81	1190.1	2.68	3.21	3.79	600.1	1.79	1.67	1.62
1210.1	1240.1	1.88	1.88	1.90	1240.1	2.71	3.23	3.82	620.1	1.79	1.69	1.65
1260.1	1290.1	2.07	2.06	2.05	1290.1	2.74	3.24	3.83	650.1	1.76	1.67	1.64
1310.1	1340.1	2.26	2.23	2.21	1340.1	2.73	3.22	3.80	670.1	1.78	1.70	1.67
1360.1	1390.1	2.52	2.48	2.44	1390.1	2.76	3.22	3.79	700.1	1.80	1.71	1.69
1410.1	1440.1	2.75	2.70	2.66	1440.1	2.75	3.19	3.75	720.1	1.79	1.72	1.71
1460.1	1490.1	3.04	2.98	2.92	1490.1	2.76	3.17	3.73	750.1	1.78	1.71	1.71
1510.1	1540.1	3.26	3.20	3.13	1540.1	2.77	3.18	3.73	770.1	1.78	1.72	1.73
1560.1	1590.1	3.49	3.42	3.34	1590.1	2.83	3.22	3.76	800.1	1.80	1.74	1.74
1610.1	1640.1	3.65	3.58	3.50	1640.1	2.94	3.33	3.86	820.1	1.78	1.73	1.75
1660.1	1690.1	3.83	3.79	3.73	1690.1	3.07	3.42	3.93	850.1	1.78	1.73	1.75
1720.1	1750.1	4.00	3.99	3.96	1750.1	3.27	3.58	4.08	870.1	1.75	1.71	1.74
1770.1	1800.1	3.95	3.95	3.93	1800.1	3.42	3.66	4.10	900.1	1.80	1.75	1.77
1830.1	1860.1	4.02	3.99	3.96	1860.1	3.68	3.87	4.29	920.1	1.76	1.73	1.76
1880.1	1910.1	3.98	3.92	3.87	1910.1	3.92	4.01	4.39	950.1	1.77	1.74	1.78
1940.1	1970.1	4.07	3.97	3.91	1970.1	4.21	4.22	4.55	970.1	1.72	1.70	1.74
1990.1	2020.1	3.99	3.84	3.76	2020.1	4.43	4.35	4.63	1000.1	1.82	1.80	1.85

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	16	23	17	27	25	38	30	46	34	46
1	-	16	+0	31	12	37	18	39	37	54	43	57
2	93	>79	65	67	64	72	61	68	64	>79	69	>79
3	>100	>79	71	>79	71	79	62	>79	70	>79	74	>79
4	>100	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
5	>100	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
6	>100	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
7	>100	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
8	>100	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
9	>100	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
10	>100	>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: 500.1 MHz; -14.00 dBm.
LO IN: 530.1 MHz; +7.00 dBm
IF OUT: 30 MHz; -21.2 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	26	34	27	38	36	49	43	59	48	59
1	-	16	+0	31	12	37	18	41	38	58	47	62
2	73	57	55	62	52	62	50	58	57	69	64	74
3	>100	59	50	59	59	74	46	65	50	63	58	69
4	>100	70	72	67	81	70	78	69	74	70	73	85
5	>100	75	69	71	63	72	60	69	58	76	58	74
6	>100	>89	>89	84	88	86	88	86	84	87	83	>89
7	>100	>89	89	>89	77	>89	78	85	79	86	82	84
8	>100	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89
9	>100	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89
10	>100	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89	>89
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; -11.2 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.

REV. X2
ZX05-2+
101011
Page 5 of 5

