

Frequency Mixer

ZX05-C24LH+

Typical Performance Data

RF (MHz)	LO (MHz)	CONVERSION LOSS (dB)			LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)			LO (MHz)	RF (MHz)	IP3 Input (dBm) @LO (dBm) +10
		@LO (dBm)				@LO (dBm)			@LO (dBm)					
		+7	+10	+13		+7	+10	+13	+7	+10	+13			
301.0	331.0	6.63	5.75	5.65	331.0	48.07	47.96	47.52	20.57	22.24	24.14	1030.0	1000.0	16.95
351.0	381.0	5.54	5.32	5.24	381.0	43.52	43.48	43.61	20.71	22.96	24.78	1080.0	1050.0	19.13
401.0	431.0	5.24	5.00	4.78	431.0	40.61	41.59	42.15	21.87	24.26	26.27	1130.0	1100.0	16.93
451.0	481.0	6.11	5.51	5.08	481.0	39.88	40.65	41.35	22.94	25.04	26.58	1180.0	1150.0	18.98
501.0	531.0	7.61	6.40	5.73	531.0	43.70	43.45	43.39	24.84	27.04	28.60	1230.0	1200.0	14.92
551.0	581.0	7.86	6.98	6.56	581.0	68.22	58.20	53.88	25.99	28.05	29.33	1280.0	1250.0	13.27
601.0	631.0	7.01	6.77	6.47	631.0	49.87	50.89	52.08	27.47	27.99	27.85	1330.0	1300.0	10.07
701.0	731.0	6.44	6.34	6.49	731.0	45.02	43.78	42.90	28.39	27.28	26.45	1380.0	1350.0	9.56
751.0	781.0	6.57	6.20	6.26	781.0	44.30	43.51	42.48	29.60	28.95	28.20	1430.0	1400.0	10.07
801.0	831.0	7.11	6.59	6.42	831.0	42.36	42.28	42.16	34.20	33.03	31.62	1480.0	1450.0	6.77
851.0	881.0	7.37	7.05	6.85	881.0	42.49	43.25	43.87	29.46	30.83	32.01	1530.0	1500.0	6.70
901.0	931.0	7.71	7.26	6.90	931.0	41.86	42.42	42.91	25.29	26.85	28.17			
1001.0	1031.0	7.44	7.10	7.05	1031.0	43.29	43.40	43.35	22.81	23.84	24.43			
1051.0	1081.0	7.45	7.19	7.02	1081.0	43.84	43.34	42.68	24.83	25.49	25.72			
1101.0	1131.0	7.65	7.25	7.08	1131.0	44.09	43.41	42.88	27.33	27.83	27.85			
1151.0	1181.0	7.99	7.32	7.00	1181.0	45.58	44.15	43.09	29.69	30.33	30.24			
1201.0	1231.0	8.14	7.29	6.76	1231.0	44.03	44.26	44.36	30.52	31.91	32.38			
1251.0	1281.0	8.76	7.76	7.20	1281.0	48.47	45.67	43.98	32.04	34.00	35.05			
1301.0	1331.0	7.78	7.16	6.84	1331.0	44.04	42.78	41.87	31.76	34.33	36.39			
1351.0	1381.0	7.06	6.44	6.07	1381.0	39.69	38.99	39.70	30.36	33.07	35.42			
1401.0	1431.0	6.33	5.82	5.62	1431.0	48.10	43.83	39.59	29.43	32.46	35.22			
1451.0	1481.0	6.35	5.87	5.46	1481.0	46.80	44.15	42.05	27.97	30.43	33.29			
1501.0	1531.0	6.06	5.61	5.19	1531.0	42.26	40.19	38.34	26.74	29.17	32.11			
1551.0	1581.0	5.64	5.01	4.92	1581.0	41.61	38.83	36.87	25.58	28.66	31.64			
1601.0	1631.0	5.21	4.97	4.82	1631.0	38.85	36.59	35.19	25.97	28.75	31.25			
1651.0	1681.0	5.18	4.98	4.92	1681.0	38.03	36.10	34.68	25.61	27.93	30.31			
1701.0	1731.0	5.20	5.14	5.07	1731.0	37.85	36.19	35.12	23.48	25.42	27.53			
1751.0	1781.0	5.44	5.28	5.29	1781.0	40.21	38.24	36.24	21.92	23.82	25.96			
1801.0	1831.0	5.44	5.24	5.08	1831.0	37.38	35.53	33.95	20.67	22.52	24.62			
1851.0	1881.0	5.42	5.37	5.32	1881.0	36.35	35.07	34.05	19.99	21.78	23.81			
1901.0	1931.0	5.55	5.14	5.08	1931.0	34.97	34.22	33.50	19.74	21.44	23.38			
1951.0	1981.0	5.97	5.42	5.14	1981.0	34.35	33.59	33.11	20.58	22.10	23.86			
2001.0	2031.0	6.73	6.07	5.61	2031.0	34.95	33.56	32.70	20.22	22.01	24.11			
2051.0	2081.0	7.28	6.64	6.10	2081.0	36.57	34.25	32.85	20.85	22.64	24.77			
2101.0	2131.0	7.71	6.94	6.54	2131.0	35.86	33.98	32.97	22.34	24.50	26.82			
2151.0	2181.0	7.78	7.03	6.64	2181.0	36.23	34.25	32.90	21.22	22.95	24.36			
2201.0	2231.0	7.76	6.87	6.60	2231.0	39.59	36.60	34.53	19.62	20.85	22.31			
2301.0	2331.0	8.24	6.84	6.63	2331.0	37.95	36.27	35.52	19.63	21.39	23.06			
2351.0	2381.0	8.76	6.76	6.56	2381.0	36.72	35.01	33.80	20.48	22.88	24.67			
2401.0	2431.0	8.68	6.73	6.57	2431.0	35.61	33.38	31.29	23.12	25.12	26.57			

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Frequency Mixer

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Typical Performance Data

RF/LO (MHz)	RF VSWR (:1)			LO VSWR (:1)			IF (MHz)	IF VSWR (:1)		
	@LO (dBm)			@LO (dBm)				@LO (dBm)		
	+7	+10	+13	+7	+10	+13		+7	+10	+13
331.0	1.85	1.84	1.87	8.94	6.52	6.53	0.1	1.59	1.32	1.17
381.0	1.46	1.44	1.44	3.37	3.60	4.34	0.3	1.61	1.35	1.19
431.0	1.57	1.46	1.38	1.85	2.34	3.03	0.5	1.64	1.37	1.21
481.0	2.70	2.48	2.32	1.29	1.78	2.38	0.6	1.66	1.38	1.22
531.0	4.33	3.74	3.38	1.19	1.38	1.86	0.8	1.67	1.39	1.22
581.0	4.87	4.46	4.17	1.59	1.42	1.76	1.0	1.67	1.39	1.22
631.0	4.46	4.27	4.12	1.99	1.75	2.08	2.8	1.67	1.39	1.22
731.0	4.10	3.52	3.22	2.37	2.43	3.01	4.6	1.66	1.39	1.22
781.0	4.16	3.73	3.25	2.59	2.93	3.60	6.4	1.67	1.38	1.22
831.0	4.63	4.02	3.60	2.80	3.37	4.27	8.2	1.67	1.39	1.22
881.0	4.79	4.36	4.08	2.90	3.62	4.57	10.0	1.68	1.39	1.22
931.0	4.69	4.31	3.99	2.87	3.80	4.97	20.0	1.72	1.41	1.24
1031.0	4.72	4.38	4.16	2.54	3.59	4.91	30.0	1.73	1.42	1.25
1081.0	4.84	4.56	4.38	2.59	3.61	4.76	40.0	1.70	1.42	1.26
1131.0	4.76	4.45	4.21	2.92	3.85	5.15	50.0	1.71	1.44	1.28
1181.0	5.28	4.79	4.44	3.35	4.23	5.42	60.0	1.75	1.47	1.32
1231.0	4.89	4.46	4.15	3.55	4.18	5.12	70.0	1.81	1.52	1.36
1281.0	5.25	4.80	4.56	3.76	4.09	4.94	80.0	1.83	1.54	1.39
1331.0	3.71	3.38	3.26	3.79	3.84	4.18	90.0	1.82	1.55	1.41
1381.0	3.22	2.84	2.59	3.60	3.59	3.88	100.0	1.83	1.57	1.44
1431.0	2.99	2.66	2.35	3.36	3.18	3.39	150.0	2.01	1.74	1.60
1481.0	2.77	2.50	2.24	3.08	2.68	2.82	200.0	2.23	1.96	1.83
1531.0	2.29	1.87	1.58	2.97	2.26	2.31	250.0	2.38	2.11	1.97
1581.0	1.73	1.45	1.37	2.85	2.10	2.11	300.0	2.56	2.29	2.14
1631.0	1.49	1.37	1.34	3.11	2.12	1.93	400.0	2.77	2.40	2.18
1681.0	1.41	1.37	1.40	2.77	1.81	1.61	500.0	2.78	2.32	2.05
1731.0	1.41	1.46	1.53	2.24	1.40	1.27	600.0	2.37	1.94	1.68
1781.0	1.38	1.46	1.52	1.84	1.16	1.31	700.0	2.27	2.06	2.00
1831.0	1.13	1.25	1.33	1.55	1.19	1.58	800.0	5.41	5.24	4.95
1881.0	1.25	1.49	1.62	1.54	1.47	1.91	900.0	4.03	3.91	3.84
1931.0	1.15	1.25	1.37	1.81	1.88	2.33	1000.0	3.22	3.19	3.19
1981.0	1.60	1.46	1.43	2.29	2.35	2.78	1100.0	1.92	1.89	1.94
2031.0	2.23	2.01	1.89	2.91	2.77	3.17	1200.0	1.49	1.49	1.48
2081.0	2.83	2.55	2.36	3.63	3.15	3.36	1300.0	5.81	5.60	5.65
2131.0	3.60	3.31	3.11	4.57	3.35	3.32	1400.0	4.07	3.71	3.53
2181.0	3.81	3.46	3.29	5.47	3.40	2.98	1500.0	2.90	2.50	2.23
2231.0	3.95	3.40	3.20	6.89	3.61	2.78	1600.0	2.37	1.96	1.67
2331.0	3.34	2.67	2.54	6.96	3.73	2.43	1700.0	1.65	1.30	1.13
2381.0	3.19	2.47	2.35	7.57	4.10	2.41	1800.0	1.26	1.57	1.82
2431.0	3.04	2.32	2.17	6.67	3.97	2.35	1900.0	1.86	2.25	2.55

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