

Frequency Mixer

ZX05-C60+

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) +7
		@LO (dBm)				@LO (dBm)			@LO (dBm)					
		+4	+7	+10		+4	+7	+10	+4	+7	+10			
1600.0	1630.0	6.33	5.85	5.55	1630.0	33.94	33.44	33.49	16.61	18.92	21.13	3030.0	3000.0	13.27
1650.0	1680.0	6.18	5.78	5.56	1680.0	35.25	34.70	34.59	16.90	19.15	21.21	3080.0	3050.0	15.34
1700.0	1730.0	5.91	5.60	5.42	1730.0	37.64	36.97	36.53	17.34	19.61	21.53	3130.0	3100.0	10.67
1750.0	1780.0	5.86	5.59	5.44	1780.0	41.10	39.56	38.50	17.73	19.92	21.61	3180.0	3150.0	12.29
1800.0	1830.0	5.83	5.57	5.43	1830.0	45.64	43.23	41.22	18.04	20.13	21.60	3230.0	3200.0	10.34
1850.0	1880.0	5.86	5.61	5.47	1880.0	45.38	43.95	42.33	18.30	20.12	21.31	3280.0	3250.0	11.38
1900.0	1930.0	5.80	5.60	5.49	1930.0	41.46	40.80	40.12	18.51	19.99	20.81	3330.0	3300.0	9.85
1950.0	1980.0	5.87	5.67	5.56	1980.0	38.63	37.93	37.40	18.73	19.86	20.29	3380.0	3350.0	10.63
2000.0	2030.0	5.88	5.67	5.58	2030.0	36.31	35.50	34.82	18.82	19.59	19.64	3430.0	3400.0	9.22
2050.0	2080.0	5.95	5.74	5.64	2080.0	35.28	33.81	32.68	18.82	19.24	19.03	3530.0	3500.0	8.13
2100.0	2130.0	5.98	5.80	5.77	2130.0	34.28	32.77	31.22	18.71	18.86	18.44	3580.0	3550.0	7.87
2150.0	2180.0	5.95	5.81	5.85	2180.0	33.71	31.83	30.12	18.54	18.20	17.50	3630.0	3600.0	7.49
2200.0	2230.0	5.75	5.60	5.61	2230.0	32.81	31.61	30.25	18.84	18.14	17.31	3680.0	3650.0	8.01
2250.0	2280.0	5.67	5.51	5.49	2280.0	32.13	30.87	29.62	18.77	17.56	16.56	3730.0	3700.0	6.96
2300.0	2330.0	5.75	5.57	5.53	2330.0	31.98	30.85	29.71	18.35	17.13	16.27	3780.0	3750.0	8.26
2350.0	2380.0	5.74	5.55	5.49	2380.0	32.08	30.79	29.65	17.99	16.76	15.90	3830.0	3800.0	8.12
2400.0	2430.0	5.74	5.60	5.54	2430.0	32.25	31.10	29.95	17.98	16.80	15.99	3880.0	3850.0	7.51
2450.0	2480.0	5.75	5.63	5.61	2480.0	32.47	31.38	30.31	18.04	16.72	15.86	3930.0	3900.0	8.54
2500.0	2530.0	5.77	5.67	5.64	2530.0	32.60	31.53	30.47	17.86	16.64	15.84	3980.0	3950.0	7.80
2550.0	2580.0	5.73	5.63	5.62	2580.0	33.14	31.99	30.97	18.01	16.72	15.94	4030.0	4000.0	8.04
2600.0	2630.0	5.73	5.61	5.58	2630.0	33.09	32.21	31.42	17.97	16.72	15.97	4080.0	4050.0	8.15
2650.0	2680.0	5.89	5.75	5.70	2680.0	33.51	32.96	32.33	18.01	16.91	16.22	4130.0	4100.0	8.66
2700.0	2730.0	5.95	5.78	5.73	2730.0	34.25	33.85	33.43	17.93	16.97	16.37	4180.0	4150.0	11.46
2750.0	2780.0	6.14	5.93	5.84	2780.0	35.26	34.84	34.41	17.76	16.99	16.50	4230.0	4200.0	11.90
2800.0	2830.0	6.34	6.08	5.94	2830.0	35.54	35.38	35.05	17.64	17.03	16.63	4280.0	4250.0	10.41
2850.0	2880.0	6.51	6.22	6.03	2880.0	34.90	34.73	34.57	17.50	17.03	16.76	4330.0	4300.0	9.76
2900.0	2930.0	6.68	6.34	6.14	2930.0	34.52	34.41	34.34	17.44	17.21	17.07	4380.0	4350.0	10.36
2950.0	2980.0	6.88	6.53	6.32	2980.0	34.20	34.01	33.87	17.22	17.15	17.15	4430.0	4400.0	8.89
3000.0	3030.0	7.02	6.65	6.44	3030.0	33.96	33.86	33.71	17.06	17.40	17.52	4480.0	4450.0	9.36
3050.0	3080.0	7.00	6.60	6.40	3080.0	33.51	33.36	33.15	16.79	17.38	17.67	4530.0	4500.0	9.12
3100.0	3130.0	7.04	6.64	6.41	3130.0	33.84	33.32	32.96	16.81	17.58	18.16			
3700.0	3730.0	6.40	5.89	5.62	3730.0	36.21	33.46	31.14	13.93	13.85	13.49			
3750.0	3780.0	6.30	5.79	5.53	3780.0	36.66	32.37	30.07	14.61	13.93	13.18			
3800.0	3830.0	6.39	5.85	5.54	3830.0	39.20	33.61	30.87	15.93	14.80	13.81			
3850.0	3880.0	6.43	5.91	5.60	3880.0	39.69	34.00	31.03	16.58	15.08	13.93			
3900.0	3930.0	6.49	5.98	5.68	3930.0	40.07	34.55	31.56	17.37	15.52	14.18			
3950.0	3980.0	6.51	6.03	5.76	3980.0	39.64	34.60	31.74	17.87	15.76	14.38			
4000.0	4030.0	6.59	6.13	5.87	4030.0	39.47	34.90	31.92	18.44	16.01	14.55			
5000.0	5030.0	6.25	5.99	5.97	5030.0	24.49	24.51	24.37	19.91	20.40	20.95			
6000.0	6030.0	8.42	6.61	6.32	6030.0	23.05	24.37	24.74	11.51	13.33	15.01			

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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)		
	+4	+7	+10	+4	+7	+10		+4	+7	+10
1630.0	3.51	3.21	3.01	2.34	2.77	3.41	10.0	1.52	1.02	1.20
1680.0	3.44	3.21	3.06	2.29	2.63	3.23	20.0	1.51	1.03	1.20
1730.0	3.31	3.15	3.03	2.41	2.78	3.49	30.0	1.52	1.05	1.20
1780.0	3.12	2.93	2.82	2.44	2.97	3.78	40.0	1.52	1.06	1.20
1830.0	2.91	2.72	2.59	2.46	3.06	3.91	50.0	1.53	1.08	1.21
1880.0	2.61	2.43	2.32	2.52	3.21	4.11	60.0	1.54	1.10	1.22
1930.0	2.27	2.11	2.00	2.45	3.07	3.82	70.0	1.55	1.12	1.22
1980.0	1.93	1.79	1.69	2.50	3.20	3.95	80.0	1.57	1.13	1.23
2030.0	1.66	1.52	1.44	2.51	3.18	3.89	90.0	1.58	1.15	1.24
2080.0	1.54	1.42	1.35	2.51	3.23	3.98	150.0	1.66	1.27	1.32
2130.0	1.50	1.43	1.42	2.59	3.40	4.31	200.0	1.76	1.36	1.39
2180.0	1.58	1.58	1.64	2.54	3.43	4.45	250.0	1.85	1.46	1.47
2230.0	1.84	1.86	1.91	2.26	3.05	4.03	300.0	1.96	1.55	1.55
2280.0	2.18	2.19	2.21	2.28	3.08	4.18	350.0	2.08	1.64	1.62
2330.0	2.56	2.55	2.56	1.87	2.32	2.95	400.0	2.17	1.72	1.67
2380.0	2.94	2.91	2.87	1.60	1.88	2.39	450.0	2.30	1.81	1.73
2430.0	3.31	3.27	3.22	1.42	1.51	1.91	500.0	2.43	1.89	1.79
2480.0	3.55	3.45	3.37	1.38	1.18	1.55	550.0	2.53	1.96	1.85
2530.0	3.85	3.70	3.59	1.48	1.12	1.54	600.0	2.69	2.07	1.92
2580.0	4.14	3.93	3.74	1.56	1.38	1.73	650.0	2.85	2.16	1.97
2630.0	4.40	4.12	3.88	1.71	1.75	2.19	700.0	3.06	2.28	2.05
2680.0	4.78	4.40	4.13	1.84	2.11	2.70	750.0	3.28	2.42	2.15
2730.0	5.25	4.73	4.36	2.01	2.55	3.32	800.0	3.42	2.51	2.22
2780.0	6.10	5.49	4.97	2.19	2.96	3.96	850.0	3.54	2.58	2.27
2830.0	6.87	6.24	5.68	2.38	3.30	4.46	900.0	3.77	2.71	2.38
2880.0	7.85	7.07	6.32	2.56	3.82	5.39	950.0	3.74	2.73	2.38
2930.0	8.45	7.60	6.77	2.76	3.98	5.56	1000.0	3.76	2.73	2.37
2980.0	7.34	6.66	6.00	2.82	3.94	5.32	1050.0	3.80	2.77	2.39
3030.0	7.08	6.40	5.78	3.10	4.50	6.15	1100.0	3.83	2.78	2.38
3080.0	5.67	5.15	4.71	3.23	4.36	5.76	1150.0	3.99	2.84	2.40
3130.0	4.78	4.30	3.94	3.57	4.81	6.62	1200.0	4.09	2.85	2.38
3730.0	2.48	2.24	2.06	3.80	3.91	4.32	1250.0	4.48	2.95	2.42
3780.0	2.47	2.20	2.00	3.96	3.97	4.15	1300.0	4.53	2.92	2.40
3830.0	2.49	2.21	2.00	4.49	4.29	4.38	1350.0	4.84	3.01	2.43
3880.0	2.42	2.17	1.97	4.17	3.96	4.27	1400.0	4.76	2.96	2.40
3930.0	2.37	2.14	1.95	4.01	3.70	3.78	1450.0	4.45	2.87	2.35
3980.0	2.29	2.07	1.93	4.03	3.73	3.79	1500.0	4.25	2.80	2.31
4030.0	2.22	2.03	1.90	3.86	3.49	3.58	1550.0	3.97	2.67	2.24
5030.0	1.72	1.50	1.38	2.33	1.54	1.10	1600.0	3.85	2.61	2.20
6030.0	2.28	1.73	1.55	3.17	2.81	2.63	3000.0	23.15	37.61	46.96

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