

Frequency Mixer

ZX05-C42+

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			
1000.0	1030.0	7.65	7.06	6.61	1030.0	30.45	30.82	31.34	19.72	21.95	23.91	2380.0	2350.0	8.93
1050.0	1080.0	7.48	6.95	6.60	1080.0	31.29	31.84	32.51	20.23	22.56	24.57	2430.0	2400.0	9.32
1100.0	1130.0	7.07	6.73	6.47	1130.0	33.20	33.92	34.41	20.90	23.18	25.08	2480.0	2450.0	9.56
1150.0	1180.0	7.36	7.00	6.86	1180.0	35.84	36.31	36.56	21.18	23.24	25.03	2530.0	2500.0	8.94
1250.0	1280.0	6.90	6.82	6.50	1280.0	40.12	40.04	40.01	22.02	23.40	24.14	2580.0	2550.0	9.19
1300.0	1330.0	6.97	6.56	6.51	1330.0	41.57	41.27	40.80	22.27	23.15	23.40	2630.0	2600.0	9.23
1350.0	1380.0	6.59	6.49	6.55	1380.0	44.08	42.74	41.45	22.46	22.71	22.43	2680.0	2650.0	9.90
1400.0	1430.0	6.68	6.74	6.48	1430.0	45.00	43.15	41.52	22.42	22.28	21.79	2730.0	2700.0	9.35
1450.0	1480.0	6.68	6.69	6.60	1480.0	44.52	41.97	39.96	22.29	21.98	21.45	2780.0	2750.0	7.52
1500.0	1530.0	6.70	6.55	6.54	1530.0	42.67	40.58	38.51	22.23	21.81	21.30	2880.0	2850.0	6.07
1600.0	1630.0	7.06	6.65	6.63	1630.0	39.72	37.40	35.71	23.75	22.79	21.70			
1700.0	1730.0	7.12	6.82	6.83	1730.0	35.97	34.24	32.96	23.12	22.29	21.62			
1800.0	1830.0	7.33	7.09	6.83	1830.0	40.17	37.36	35.46	23.64	23.02	22.53			
1900.0	1930.0	7.40	7.16	7.07	1930.0	40.03	39.01	38.26	24.41	24.51	24.52			
2000.0	2030.0	7.69	7.37	7.26	2030.0	37.52	37.53	37.51	24.33	25.73	27.05			
2100.0	2130.0	7.54	7.15	6.99	2130.0	38.98	38.01	37.29	22.46	23.66	24.59			
2200.0	2230.0	7.32	6.89	6.70	2230.0	38.39	36.75	35.64	20.01	19.90	19.65			
2300.0	2330.0	7.73	7.23	6.79	2330.0	38.71	36.32	34.51	18.54	17.58	16.80			
2400.0	2430.0	7.13	6.71	6.39	2430.0	36.44	34.38	32.61	19.20	17.61	16.55			
2500.0	2530.0	6.93	6.55	6.37	2530.0	35.79	33.12	30.87	21.14	19.16	17.80			
2600.0	2630.0	7.64	6.76	6.38	2630.0	41.26	35.83	31.73	23.11	20.59	19.16			
2700.0	2730.0	8.03	7.22	6.74	2730.0	44.71	38.56	35.10	24.39	21.86	20.45			
2800.0	2830.0	7.40	6.85	6.33	2830.0	45.04	43.97	41.14	25.20	22.58	21.11			
2900.0	2930.0	7.06	6.30	5.94	2930.0	43.57	45.43	47.79	26.38	23.71	22.21			
3000.0	3030.0	6.55	5.73	5.47	3030.0	41.19	43.61	49.53	27.37	25.27	23.96			
3100.0	3130.0	6.40	5.66	5.48	3130.0	42.04	42.98	42.44	27.27	25.76	25.03			
3200.0	3230.0	6.11	5.55	5.58	3230.0	41.12	41.05	39.13	26.55	25.87	25.84			
3300.0	3330.0	5.98	5.51	5.64	3330.0	36.32	35.56	34.96	25.85	25.90	26.33			
3400.0	3430.0	6.15	5.65	5.63	3430.0	35.36	33.39	32.07	26.31	26.90	27.37			
3500.0	3530.0	6.39	5.94	5.95	3530.0	34.21	32.16	30.75	26.12	27.12	27.75			
3600.0	3630.0	6.83	6.44	6.14	3630.0	32.48	32.16	31.62	25.68	26.88	28.06			
3700.0	3730.0	6.85	6.35	6.12	3730.0	32.15	31.11	30.05	23.42	25.04	26.75			
3800.0	3830.0	7.25	6.65	6.39	3830.0	31.79	30.72	29.69	23.22	24.99	26.94			
3850.0	3880.0	7.42	6.73	6.49	3880.0	32.29	30.94	29.69	23.42	25.33	27.23			
3900.0	3930.0	7.38	6.69	6.60	3930.0	34.50	32.26	30.47	23.29	25.20	27.12			
3950.0	3980.0	7.54	6.76	6.55	3980.0	34.21	34.88	32.87	22.48	24.52	26.24			
4000.0	4030.0	7.97	7.14	6.84	4030.0	30.30	32.36	32.88	20.46	22.14	23.97			
4100.0	4130.0	8.56	7.68	7.25	4130.0	30.05	31.18	32.02	18.26	19.40	21.09			
4150.0	4180.0	8.48	7.66	7.19	4180.0	29.66	30.82	31.41	16.98	18.11	19.67			
4200.0	4230.0	8.94	7.64	7.28	4230.0	30.07	31.30	32.12	16.82	17.53	18.76			

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Frequency Mixer

ZX05-C42+

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
1030.0	2.88	2.66	2.44	3.18	4.00	5.20	10.0	1.42	1.04	1.16
1080.0	3.25	3.09	2.91	2.54	3.32	4.36	20.0	1.44	1.05	1.16
1130.0	3.48	3.35	3.31	2.14	2.81	3.74	30.0	1.46	1.06	1.17
1180.0	3.79	3.77	3.68	1.81	2.47	3.29	40.0	1.48	1.07	1.17
1280.0	3.96	3.88	3.93	1.39	1.90	2.52	50.0	1.49	1.08	1.18
1330.0	3.89	3.78	3.73	1.26	1.77	2.38	60.0	1.50	1.10	1.18
1380.0	4.04	3.78	3.65	1.24	1.75	2.39	70.0	1.51	1.11	1.18
1430.0	4.02	3.70	3.43	1.32	1.84	2.55	80.0	1.51	1.12	1.19
1480.0	3.91	3.70	3.39	1.43	1.94	2.68	90.0	1.52	1.13	1.19
1530.0	3.91	3.59	3.28	1.56	2.07	2.75	150.0	1.61	1.23	1.24
1630.0	3.28	3.04	2.82	1.83	2.29	2.92	200.0	1.72	1.32	1.29
1730.0	3.25	3.03	2.77	1.98	2.52	3.21	250.0	1.81	1.40	1.33
1830.0	3.25	3.01	2.86	2.06	2.71	3.50	300.0	1.92	1.49	1.39
1930.0	3.29	3.13	3.01	2.21	3.01	3.95	350.0	2.03	1.57	1.45
2030.0	3.40	3.25	3.08	2.58	3.34	4.30	400.0	2.15	1.66	1.51
2130.0	3.30	3.10	2.92	2.94	3.61	4.50	450.0	2.26	1.74	1.56
2230.0	3.09	2.86	2.66	3.23	3.58	4.14	500.0	2.36	1.82	1.62
2330.0	2.85	2.64	2.47	3.63	3.76	4.18	550.0	2.44	1.88	1.66
2430.0	3.02	2.69	2.45	4.03	4.08	4.50	600.0	2.61	1.99	1.74
2530.0	3.11	2.65	2.34	4.28	4.18	4.46	650.0	2.67	2.04	1.78
2630.0	3.69	3.07	2.67	5.16	4.85	5.23	700.0	2.81	2.15	1.84
2730.0	4.06	3.50	3.06	7.11	6.22	6.62	750.0	2.96	2.23	1.91
2830.0	3.87	3.44	3.10	6.93	5.28	5.29	800.0	3.11	2.32	1.97
2930.0	3.39	2.75	2.37	7.33	4.61	4.27	850.0	3.25	2.40	2.01
3030.0	2.70	2.18	1.96	8.47	5.13	4.29	900.0	3.49	2.51	2.08
3130.0	2.36	1.92	1.74	7.34	4.68	3.67	950.0	3.49	2.51	2.05
3230.0	2.17	1.69	1.53	6.03	3.81	2.96	1000.0	3.45	2.47	2.02
3330.0	2.02	1.56	1.40	4.97	2.98	2.28	1050.0	3.44	2.43	1.99
3430.0	1.99	1.56	1.37	3.60	2.29	1.81	1100.0	3.25	2.28	1.89
3530.0	2.23	1.86	1.64	2.62	1.85	1.61	1150.0	3.27	2.25	1.86
3630.0	2.35	2.11	1.90	2.28	1.72	1.64	1200.0	3.25	2.23	1.89
3730.0	2.42	2.20	2.00	2.18	1.72	1.71	1250.0	3.22	2.27	1.98
3830.0	2.43	2.24	2.07	2.04	1.72	1.81	1300.0	3.18	2.34	2.13
3880.0	2.39	2.20	2.05	2.09	1.82	1.95	1325.0	3.10	2.33	2.17
3930.0	2.33	2.15	2.02	2.16	1.93	2.07	1350.0	3.16	2.47	2.33
3980.0	2.41	2.21	2.07	2.32	2.09	2.21	1375.0	3.03	2.45	2.37
4030.0	2.66	2.45	2.31	2.72	2.37	2.46	1400.0	2.98	2.48	2.47
4130.0	3.30	3.03	2.87	3.88	3.10	3.01	1425.0	2.94	2.59	2.63
4180.0	3.59	3.20	3.04	5.11	3.78	3.46	1450.0	2.86	2.63	2.74
4230.0	4.24	3.63	3.38	5.97	4.28	3.62	1500.0	2.77	2.79	3.00

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