

Frequency Mixer

ZX05-10H

Typical Performance Data

RF (MHz)	LO (MHz)	CONVERSION LOSS (dB)			LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)			LO (MHz)	RF (MHz)	IP-3 Input (dBm)
		@LO (dBm)				@LO (dBm)			@LO (dBm)					@LO (dBm)
		+14	+17	+20		+14	+17	+20	+14	+17	+20			+17
10.1	40.1	8.87	7.55	7.01	40.1	77.47	81.69	89.16	64.81	62.06	60.23	40.1	10.1	25.90
15.1	45.1	8.66	7.42	6.91	45.1	74.23	78.85	88.94	60.94	58.72	56.72	45.1	15.1	26.00
20.1	45.1	8.62	7.42	6.85	45.1	60.79	66.62	86.56	45.55	43.40	41.82	45.1	20.1	26.20
35.1	50.1	8.63	7.39	6.90	50.1	72.06	76.53	88.41	58.40	56.02	54.19	50.1	35.1	26.10
50.1	65.1	8.57	7.39	6.90	65.1	67.27	72.77	90.21	52.83	50.66	49.21	65.1	50.1	26.60
75.1	70.1	8.56	7.45	6.95	70.1	58.34	64.18	79.27	43.19	40.85	38.87	70.1	75.1	25.80
100.1	80.1	8.60	7.47	6.93	80.1	64.14	69.91	87.68	49.36	47.32	45.88	80.1	100.1	26.20
120.1	90.1	8.56	7.40	6.89	90.1	56.61	62.90	79.14	41.45	39.09	37.09	90.1	120.1	27.00
143.9	113.9	8.53	7.39	6.85	113.9	54.97	61.39	75.26	39.34	37.09	35.22	113.9	143.85	27.70
167.6	137.6	8.56	7.47	6.86	137.6	54.08	59.64	70.43	37.65	35.18	33.78	137.6	167.6	26.40
191.4	161.4	8.50	7.37	6.81	161.4	53.10	57.55	66.08	36.33	33.65	32.62	161.4	191.35	26.00
215.1	185.1	8.46	7.24	6.80	185.1	51.86	56.02	63.15	34.99	32.50	32.07	185.1	215.1	25.80
238.9	208.9	8.48	7.18	6.79	208.9	50.46	55.16	61.80	33.41	31.38	31.35	208.9	238.85	25.10
262.6	232.6	8.35	7.10	6.81	232.6	49.48	54.66	60.38	32.13	30.65	30.73	232.6	262.6	24.90
286.4	256.4	8.22	7.08	6.80	256.4	48.01	54.25	57.98	31.25	29.99	30.02	256.4	286.35	24.90
310.1	280.1	8.17	7.07	6.85	280.1	46.71	53.72	55.97	30.32	29.51	29.64	280.1	310.1	25.10
333.9	303.9	8.10	7.06	6.83	303.9	45.87	53.66	56.57	29.55	29.32	29.57	303.9	333.85	24.80
357.6	327.6	7.95	7.02	6.81	327.6	45.34	53.34	56.95	28.61	28.60	28.90	327.6	357.6	24.70
381.4	351.4	8.02	7.06	6.82	351.4	44.53	52.84	56.56	28.41	28.55	28.65	351.4	381.35	25.20
405.1	375.1	8.07	7.15	6.91	375.1	43.58	51.82	56.78	27.98	28.24	28.34	375.1	405.1	26.20
428.9	398.9	7.97	7.08	6.82	398.9	42.91	50.87	60.62	27.69	28.23	28.52	398.9	428.85	25.60
452.6	422.6	7.90	7.04	6.79	422.6	42.49	50.25	60.75	27.16	27.84	28.11	422.6	452.6	24.60
476.4	446.4	7.98	7.17	6.89	446.4	41.85	49.83	58.79	27.08	27.70	27.76	446.4	476.35	24.80
500.1	470.1	8.08	7.24	7.00	470.1	41.18	48.94	58.79	27.03	27.66	27.52	470.1	500.1	25.40
520.1	490.1	8.05	7.17	6.93	490.1	40.73	48.14	59.78	26.78	27.49	27.41	490.1	520.1	26.10
552.1	522.1	8.01	7.17	6.86	522.1	40.33	46.94	58.91	26.76	27.44	27.00	522.1	552.1	27.00
584.1	554.1	8.05	7.23	6.90	554.1	39.56	46.14	57.11	26.77	27.45	26.86	554.1	584.1	25.50
616.1	586.1	8.13	7.30	6.98	586.1	38.74	45.19	59.28	26.47	27.21	26.85	586.1	616.1	24.40
648.1	618.1	8.05	7.31	7.00	618.1	38.10	44.07	57.75	26.34	27.04	26.46	618.1	648.1	24.70
680.1	650.1	7.99	7.26	6.97	650.1	37.30	43.38	57.70	26.05	26.51	25.79	650.1	680.1	25.20
712.1	682.1	8.23	7.39	7.07	682.1	36.44	42.17	59.06	25.66	25.98	25.18	682.1	712.1	26.30
744.1	714.1	8.11	7.28	6.96	714.1	35.63	40.88	49.58	25.29	25.40	24.59	714.1	744.1	27.40
776.1	746.1	8.10	7.14	6.80	746.1	34.68	39.71	48.00	24.83	24.50	23.56	746.1	776.1	29.60
808.1	778.1	8.41	7.27	6.86	778.1	33.78	38.19	45.83	24.57	24.11	23.16	778.1	808.1	33.60
840.1	810.1	8.51	7.25	6.78	810.1	33.09	36.65	40.85	24.19	23.70	22.44	810.1	840.1	35.30
872.1	842.1	8.60	7.32	6.76	842.1	32.45	35.65	40.06	23.83	23.22	21.64	842.1	872.1	35.60
904.1	874.1	8.78	7.47	6.78	874.1	31.93	34.81	38.85	23.62	23.29	21.70	874.1	904.1	27.50
936.1	906.1	8.93	7.70	6.90	906.1	31.38	33.75	36.21	23.22	22.96	21.37	906.1	936.1	23.50
968.1	938.1	8.79	7.65	6.91	938.1	30.70	33.06	35.92	22.86	22.47	20.85	938.1	968.1	21.80
1000.1	970.1	8.82	7.67	6.93	970.1	30.22	32.44	35.05	26.14	21.87	21.14	970.1	1000.1	21.40

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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)		
	+14	+17	+20	+14	+17	+20		+14	+17	+20
40.1	1.53	1.43	1.35	1.70	1.13	1.52	0.3	1.62	1.09	1.19
45.1	1.52	1.40	1.31	1.72	1.11	1.49	1.0	1.67	1.12	1.16
45.1	1.52	1.41	1.33	1.71	1.10	1.51	5.0	1.68	1.13	1.15
50.1	1.51	1.40	1.31	1.73	1.09	1.51	10.0	1.64	1.13	1.15
65.1	1.53	1.41	1.31	1.74	1.09	1.50	40.0	1.64	1.10	1.19
70.1	1.52	1.40	1.31	1.74	1.13	1.50	80.0	1.67	1.10	1.26
80.1	1.51	1.39	1.30	1.72	1.09	1.51	120.0	1.56	1.10	1.32
90.1	1.51	1.39	1.30	1.74	1.16	1.51	150.0	1.58	1.12	1.33
113.9	1.51	1.39	1.30	1.75	1.18	1.54	170.3	1.64	1.13	1.30
137.6	1.52	1.39	1.31	1.73	1.18	1.54	190.6	1.58	1.15	1.30
161.4	1.50	1.38	1.31	1.76	1.19	1.52	211.0	1.55	1.16	1.27
185.1	1.48	1.38	1.32	1.81	1.20	1.56	231.3	1.47	1.17	1.25
208.9	1.48	1.38	1.33	1.81	1.21	1.59	251.6	1.45	1.18	1.25
232.6	1.47	1.38	1.33	1.76	1.19	1.56	271.9	1.52	1.19	1.23
256.4	1.46	1.39	1.34	1.74	1.19	1.56	292.2	1.48	1.19	1.23
280.1	1.47	1.40	1.35	1.77	1.20	1.62	312.5	1.48	1.20	1.21
303.9	1.47	1.40	1.35	1.70	1.18	1.66	332.8	1.44	1.21	1.21
327.6	1.46	1.39	1.35	1.63	1.17	1.60	353.1	1.46	1.21	1.21
351.4	1.46	1.40	1.35	1.60	1.19	1.64	373.5	1.53	1.24	1.21
375.1	1.46	1.40	1.36	1.61	1.20	1.72	393.8	1.55	1.26	1.20
398.9	1.45	1.39	1.34	1.58	1.20	1.68	414.1	1.55	1.28	1.20
422.6	1.45	1.39	1.34	1.52	1.18	1.61	434.4	1.56	1.29	1.20
446.4	1.47	1.41	1.36	1.47	1.21	1.70	454.7	1.60	1.30	1.21
470.1	1.47	1.41	1.36	1.45	1.24	1.77	475.0	1.68	1.31	1.20
490.1	1.45	1.40	1.35	1.42	1.22	1.72	495.3	1.74	1.35	1.21
522.1	1.45	1.39	1.33	1.35	1.23	1.68	515.6	1.74	1.39	1.22
554.1	1.46	1.39	1.34	1.32	1.31	1.83	536.0	1.77	1.43	1.23
586.1	1.44	1.38	1.32	1.26	1.30	1.76	556.3	1.76	1.44	1.24
618.1	1.44	1.38	1.32	1.23	1.32	1.79	576.6	1.81	1.47	1.26
650.1	1.43	1.38	1.32	1.22	1.37	1.93	596.9	1.81	1.49	1.29
682.1	1.41	1.35	1.30	1.15	1.34	1.79	617.2	1.82	1.51	1.32
714.1	1.40	1.33	1.29	1.12	1.39	1.89	637.5	1.82	1.52	1.32
746.1	1.38	1.32	1.27	1.08	1.45	2.01	657.8	1.86	1.51	1.31
778.1	1.37	1.30	1.26	1.07	1.40	1.85	678.1	1.87	1.50	1.29
810.1	1.36	1.28	1.23	1.09	1.53	2.05	698.5	1.92	1.51	1.28
842.1	1.36	1.27	1.21	1.12	1.57	2.11	718.8	1.93	1.50	1.27
874.1	1.37	1.26	1.20	1.15	1.56	1.98	739.1	1.97	1.50	1.27
906.1	1.37	1.24	1.17	1.20	1.72	2.30	759.4	2.00	1.49	1.24
938.1	1.37	1.23	1.14	1.22	1.69	2.19	779.7	2.08	1.48	1.24
970.1	1.37	1.23	1.12	1.23	1.70	2.16	800.0	2.14	1.51	1.25