

Frequency Mixer

HJK-ED11099/1

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
10.0	20.6	11.94	10.40	9.41	20.6	59.9	59.3	58.9	62.3	61.1	60.3	20.6	10.0	19.8
14.5	25.1	11.05	9.85	9.06	25.1	59.6	59.1	58.8	61.1	60.2	59.6	25.1	14.5	21.5
19.0	29.6	10.32	9.34	8.69	29.6	59.1	58.7	58.4	60.1	59.5	59.0	29.6	19.0	22.9
23.5	34.1	9.63	8.84	8.27	34.1	58.3	58.0	57.8	59.2	58.6	58.1	34.1	23.5	24.4
28.0	38.6	8.97	8.27	7.79	38.6	57.5	57.2	57.0	58.3	57.7	57.2	38.6	28.0	25.6
32.5	43.1	8.25	7.67	7.25	43.1	56.6	56.4	56.2	57.5	56.9	56.4	43.1	32.5	27.0
37.0	47.6	7.60	7.09	6.72	47.6	55.6	55.3	55.2	56.7	56.1	55.6	47.6	37.0	28.2
41.5	52.1	7.20	6.74	6.42	52.1	54.5	54.2	54.1	55.8	55.1	54.6	52.1	41.5	29.2
46.0	56.6	7.00	6.61	6.31	56.6	53.4	53.2	53.1	54.7	54.0	53.5	56.6	46.0	30.2
50.5	61.1	6.93	6.58	6.32	61.1	52.5	52.2	52.2	53.7	52.9	52.6	61.1	50.5	31.1
55.0	65.6	7.07	6.75	6.51	65.6	51.7	51.4	51.4	52.8	52.1	51.8	65.6	55.0	32.0
69.0	79.6	6.75	6.48	6.29	79.6	50.8	50.5	50.4	51.6	51.0	50.6	79.6	69.0	33.4
72.0	82.6	6.71	6.45	6.26	82.6	50.9	50.6	50.5	51.7	50.9	50.5	82.6	72.0	33.5
75.0	85.6	6.68	6.42	6.23	85.6	51.0	50.7	50.5	51.7	51.0	50.6	85.6	75.0	33.4
78.0	88.6	6.69	6.42	6.23	88.6	51.1	50.8	50.6	51.8	51.0	50.6	88.6	78.0	33.3
81.0	91.6	6.69	6.42	6.23	91.6	51.3	50.9	50.7	51.9	51.1	50.6	91.6	81.0	33.4
85.0	95.6	6.72	6.44	6.25	95.6	51.5	51.2	50.9	52.0	51.1	50.6	95.6	85.0	33.1
95.8	106.4	6.81	6.54	6.34	106.4	52.4	51.9	51.5	51.7	50.8	50.2	106.4	95.8	33.2
106.5	117.1	6.99	6.72	6.52	117.1	53.4	52.8	52.3	51.3	50.4	49.8	117.1	106.5	32.8
117.3	127.9	7.25	6.95	6.74	127.9	54.8	54.1	53.4	51.0	50.2	49.5	127.9	117.3	32.1
128.0	138.6	7.54	7.18	6.95	138.6	56.5	55.7	54.9	50.9	50.2	49.6	138.6	128.0	31.2
138.8	149.4	7.81	7.40	7.12	149.4	57.4	56.7	55.9	50.7	50.1	49.7	149.4	138.8	30.0
149.5	160.1	8.01	7.54	7.23	160.1	57.4	57.0	56.6	50.3	49.8	49.5	160.1	149.5	29.2
160.3	170.9	8.11	7.64	7.31	170.9	56.2	56.2	55.9	49.3	49.0	48.8	170.9	160.3	28.6
171.0	181.6	8.17	7.68	7.35	181.6	54.7	54.7	54.6	48.1	47.9	47.7	181.6	171.0	28.5
181.8	192.4	8.23	7.74	7.40	192.4	53.0	53.1	53.0	46.9	46.7	46.5	192.4	181.8	28.4
192.5	203.1	8.33	7.83	7.49	203.1	51.5	51.6	51.5	45.7	45.6	45.4	203.1	192.5	28.3
203.3	213.9	8.53	8.00	7.65	213.9	50.5	50.6	50.7	45.0	44.9	44.8	213.9	203.3	27.8
214.0	224.6	8.86	8.26	7.87	224.6	50.0	50.2	50.2	44.7	44.8	44.7	224.6	214.0	26.9
224.8	235.4	9.25	8.54	8.11	235.4	49.7	50.0	50.1	44.7	44.8	44.8	235.4	224.8	25.9
235.5	246.1	9.52	8.74	8.24	246.1	49.5	49.7	49.9	44.5	44.7	44.8	246.1	235.5	24.8
246.3	256.9	9.67	8.82	8.28	256.9	49.0	49.2	49.4	44.1	44.4	44.5	256.9	246.3	24.1
257.0	267.6	9.77	8.88	8.32	267.6	48.2	48.4	48.6	43.5	43.8	43.9	267.6	257.0	23.8
267.8	278.4	9.78	8.90	8.34	278.4	47.3	47.5	47.6	42.6	42.9	43.1	278.4	267.8	24.0
278.5	289.1	9.75	8.90	8.36	289.1	46.2	46.4	46.5	41.7	41.9	42.1	289.1	278.5	24.3
289.3	299.9	9.74	8.90	8.39	299.9	45.2	45.4	45.6	40.8	41.1	41.2	299.9	289.3	24.4
300.0	310.6	9.92	9.04	8.52	310.6	44.6	44.8	45.0	40.2	40.6	40.7	310.6	300.0	23.9
331.0	341.6	11.22	10.03	9.35	341.6	44.6	44.9	45.1	40.3	40.7	40.9	341.6	331.0	21.3
354.0	364.6	11.66	10.34	9.57	364.6	44.3	44.5	44.7	39.9	40.1	40.3	364.6	354.0	20.4
377.0	387.6	11.21	9.97	9.22	387.6	42.5	42.7	42.9	38.2	38.4	38.6	387.6	377.0	21.2
400.0	410.6	11.24	9.96	9.19	410.6	41.5	41.7	42.0	37.2	37.5	37.7	410.6	400.0	21.2

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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
20.6	1.23	1.10	1.02	16.55	20.92	21.00	0.3	1.40	1.23	1.14
25.1	1.16	1.05	1.06	16.98	17.73	17.39	0.7	1.44	1.25	1.13
29.6	1.11	1.04	1.09	14.88	15.38	15.25	1.0	1.46	1.26	1.13
34.1	1.08	1.07	1.13	13.18	13.51	13.46	2.0	1.47	1.27	1.13
38.6	1.07	1.10	1.16	11.59	11.82	11.81	3.0	1.47	1.27	1.13
43.1	1.08	1.13	1.19	10.05	10.19	10.19	4.0	1.47	1.27	1.13
47.6	1.11	1.16	1.23	8.47	8.56	8.59	4.6	1.47	1.27	1.13
52.1	1.14	1.20	1.26	6.91	6.95	7.00	6.1	1.47	1.27	1.13
56.6	1.17	1.23	1.29	5.45	5.47	5.51	7.6	1.47	1.27	1.13
61.1	1.19	1.25	1.31	4.20	4.20	4.22	9.1	1.47	1.27	1.13
65.6	1.22	1.28	1.34	3.21	3.21	3.20	10.6	1.48	1.27	1.13
79.6	1.27	1.33	1.39	1.56	1.55	1.54	12.1	1.48	1.27	1.13
82.6	1.28	1.34	1.39	1.40	1.39	1.38	13.6	1.48	1.27	1.13
85.6	1.28	1.34	1.40	1.29	1.28	1.27	15.1	1.48	1.27	1.13
88.6	1.29	1.35	1.41	1.24	1.24	1.23	16.6	1.48	1.27	1.13
91.6	1.30	1.36	1.41	1.27	1.27	1.27	18.0	1.48	1.27	1.13
95.6	1.31	1.36	1.42	1.39	1.40	1.40	19.5	1.48	1.27	1.13
106.4	1.33	1.39	1.45	1.99	2.00	2.01	21.0	1.48	1.27	1.13
117.1	1.36	1.42	1.47	2.89	2.91	2.93	27.5	1.48	1.28	1.14
127.9	1.38	1.44	1.49	3.94	3.98	4.03	34.0	1.48	1.28	1.15
138.6	1.40	1.45	1.50	4.90	4.95	4.98	40.5	1.49	1.29	1.15
149.4	1.42	1.46	1.51	5.65	5.70	5.73	47.0	1.50	1.29	1.16
160.1	1.44	1.47	1.52	6.36	6.42	6.47	53.5	1.50	1.30	1.17
170.9	1.46	1.49	1.54	7.18	7.24	7.30	60.0	1.51	1.31	1.18
181.6	1.49	1.52	1.56	8.25	8.32	8.40	66.5	1.52	1.32	1.19
192.4	1.53	1.55	1.59	9.55	9.65	9.73	73.0	1.53	1.33	1.20
203.1	1.57	1.58	1.62	10.93	11.02	11.13	79.5	1.53	1.33	1.21
213.9	1.61	1.62	1.65	12.30	12.41	12.56	86.0	1.54	1.34	1.22
224.6	1.65	1.65	1.67	13.92	14.09	14.34	92.5	1.55	1.35	1.23
235.4	1.70	1.68	1.69	16.05	16.26	16.47	99.0	1.56	1.36	1.25
246.1	1.74	1.71	1.71	18.58	18.82	19.17	105.5	1.57	1.37	1.26
256.9	1.79	1.74	1.73	20.15	20.57	21.02	112.0	1.58	1.39	1.27
267.6	1.82	1.77	1.76	19.15	19.43	19.76	118.5	1.59	1.40	1.28
278.4	1.86	1.80	1.79	16.38	16.47	16.58	125.0	1.60	1.41	1.30
289.1	1.90	1.84	1.82	14.65	14.66	14.77	131.5	1.61	1.42	1.31
299.9	1.95	1.88	1.86	14.93	15.04	15.19	138.0	1.62	1.43	1.32
310.6	2.00	1.93	1.90	18.23	18.38	18.66	144.5	1.63	1.44	1.33
341.6	2.20	2.08	2.00	57.91	60.32	64.11	151.0	1.64	1.45	1.35
364.6	2.34	2.17	2.06	20.65	20.62	20.67	155.0	1.65	1.46	1.36
387.6	2.44	2.23	2.12	13.32	13.36	13.43	167.5	1.68	1.49	1.38
410.6	2.59	2.36	2.22	35.10	36.13	36.97	180.0	1.71	1.52	1.41