

Frequency Mixer

HJK-ED9801A

Typical Performance Data

RF (MHz)	LO (MHz)	CONVERSION LOSS (dB)			LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
		@LO (dBm)				@LO (dBm)			@LO (dBm)		
		+18	+21	+24		+18	+21	+24	+18	+21	+24
10.0	25.4	6.38	6.07	5.92	25.4	49.7	53.7	57.2	51.3	56.4	62.7
40.9	56.3	6.50	6.12	5.92	56.3	49.7	53.5	55.8	50.5	55.6	59.7
71.9	87.2	6.00	5.64	5.34	87.2	49.7	52.2	53.4	51.4	55.3	58.7
102.8	118.1	6.36	5.91	5.68	118.1	49.2	51.4	51.6	50.8	55.2	56.6
133.7	149.1	6.24	5.67	5.53	149.1	49.1	51.1	50.5	51.8	56.2	56.1
164.6	180.0	6.00	5.64	5.53	180.0	50.5	50.2	48.4	54.4	55.2	53.6
193.0	208.4	6.08	5.88	5.80	208.4	51.3	49.5	47.2	56.5	55.4	53.3
197.0	212.4	6.07	5.87	5.79	212.4	51.2	49.4	47.2	56.4	55.3	53.4
201.0	216.4	6.02	5.82	5.74	216.4	51.3	49.2	47.2	56.5	55.1	53.4
205.0	220.4	5.95	5.74	5.66	220.4	51.4	49.1	47.1	56.7	55.0	53.4
209.0	224.4	5.86	5.66	5.58	224.4	51.5	49.1	47.0	56.8	54.8	53.1
213.0	228.4	5.78	5.59	5.51	228.4	51.7	49.0	46.9	56.8	54.7	53.0
217.0	232.4	5.71	5.53	5.45	232.4	51.8	48.9	46.8	57.0	54.6	52.8
221.0	236.4	5.69	5.51	5.44	236.4	51.8	48.8	46.6	57.4	54.8	52.9
225.0	240.4	5.70	5.53	5.46	240.4	51.7	48.6	46.4	57.6	54.7	52.7
235.0	250.4	5.89	5.71	5.63	250.4	51.9	48.3	45.8	58.1	54.4	52.2
237.5	252.9	5.95	5.77	5.69	252.9	52.1	48.2	45.6	58.3	54.4	52.1
240.0	255.4	6.01	5.81	5.73	255.4	52.1	48.0	45.4	58.6	54.3	52.0
242.5	257.9	6.05	5.85	5.77	257.9	52.3	47.9	45.3	58.9	54.2	51.8
245.0	260.4	6.12	5.90	5.82	260.4	52.5	47.9	45.1	59.2	54.2	51.7
256.0	271.4	6.22	5.97	5.89	271.4	53.4	47.6	44.6	60.2	53.8	51.2
286.4	301.8	6.06	5.83	5.73	301.8	53.8	47.2	44.2	61.8	54.7	52.3
316.8	332.2	6.15	5.96	5.89	332.2	51.9	46.0	43.3	58.1	53.5	51.7
347.2	362.6	6.20	5.92	5.84	362.6	55.7	45.7	42.3	60.3	53.0	50.8
377.6	393.0	6.32	6.01	5.91	393.0	57.6	46.2	42.9	60.0	54.5	52.3
408.0	423.4	6.39	6.11	6.00	423.4	54.3	45.5	42.5	55.7	55.0	53.5
464.6	480.0	6.66	6.25	6.12	480.0	63.4	47.9	44.2	51.8	51.7	51.3
524.6	540.0	6.64	6.31	6.19	540.0	52.5	45.5	42.9	50.7	50.9	50.3
584.6	600.0	6.93	6.45	6.28	600.0	55.4	47.9	45.3	48.6	50.6	50.6
644.6	660.0	7.63	6.82	6.49	660.0	52.2	53.6	48.1	45.0	47.6	49.3
704.6	720.0	7.55	6.97	6.63	720.0	52.7	55.1	49.2	42.1	43.5	44.7
764.6	780.0	8.02	7.31	6.90	780.0	49.0	57.5	59.2	41.8	43.1	44.1
800.0	815.4	7.48	6.94	6.64	815.4	51.0	62.3	56.4	40.8	42.0	42.8
825.0	840.4	7.64	7.05	6.73	840.4	50.6	62.8	61.1	41.0	42.1	42.7
850.0	865.4	7.83	7.17	6.81	865.4	49.6	57.0	76.5	41.4	42.1	42.5
875.0	890.4	7.70	7.14	6.81	890.4	50.5	57.4	68.9	40.8	41.2	41.5
900.0	915.4	7.41	6.95	6.68	915.4	52.5	60.3	69.8	39.8	40.0	40.2
925.0	940.4	7.69	7.18	6.88	940.4	53.8	61.9	70.1	40.5	40.7	41.0
950.0	965.4	7.92	7.31	6.98	965.4	55.0	63.0	67.0	41.3	41.5	41.7
975.0	990.4	7.97	7.37	7.02	990.4	56.9	61.6	61.0	40.7	41.0	41.2
1000.0	1015.4	7.81	7.26	6.93	1015.4	58.3	57.8	56.6	39.5	39.9	40.2

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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)		
	+18	+21	+24	+18	+21	+24		+18	+21	+24
25.4	1.18	1.07	1.03	1.20	1.80	2.46	10.0	1.82	1.82	1.82
56.3	1.23	1.11	1.04	1.20	1.80	2.51	24.0	1.82	1.82	1.82
87.2	1.25	1.12	1.07	1.20	1.77	2.45	39.0	1.81	1.81	1.81
118.1	1.29	1.13	1.11	1.17	1.67	2.34	54.0	1.81	1.81	1.81
149.1	1.32	1.14	1.15	1.15	1.65	2.33	69.0	1.82	1.82	1.82
180.0	1.23	1.16	1.18	1.06	1.51	2.12	83.0	1.82	1.83	1.82
208.4	1.20	1.19	1.21	1.09	1.46	2.07	98.0	1.83	1.83	1.83
212.4	1.21	1.20	1.21	1.19	1.37	1.96	110.0	1.83	1.83	1.83
216.4	1.21	1.20	1.22	1.28	1.26	1.78	125.0	1.83	1.83	1.83
220.4	1.22	1.21	1.22	1.44	1.21	1.72	140.0	1.82	1.82	1.82
224.4	1.22	1.21	1.23	1.51	1.12	1.56	155.0	1.82	1.82	1.82
228.4	1.22	1.22	1.23	1.70	1.06	1.47	170.0	1.82	1.82	1.82
232.4	1.23	1.22	1.24	1.76	1.07	1.36	185.0	1.82	1.82	1.82
236.4	1.23	1.23	1.24	1.92	1.18	1.33	200.0	1.83	1.83	1.83
240.4	1.24	1.23	1.25	2.21	1.34	1.35	215.0	1.82	1.82	1.82
250.4	1.25	1.24	1.25	2.12	1.44	1.45	230.0	1.82	1.82	1.82
252.9	1.25	1.24	1.25	2.52	1.61	1.60	245.0	1.81	1.81	1.81
255.4	1.25	1.24	1.26	2.54	1.80	1.79	260.0	1.80	1.80	1.80
257.9	1.26	1.24	1.26	2.79	2.07	2.09	275.0	1.80	1.80	1.80
260.4	1.26	1.24	1.26	3.38	2.48	2.40	290.0	1.81	1.81	1.81
271.4	1.27	1.25	1.26	3.34	2.75	2.76	305.0	1.81	1.81	1.81
301.8	1.30	1.28	1.30	3.75	2.98	3.03	315.0	1.81	1.81	1.81
332.2	1.35	1.32	1.33	3.77	3.22	3.33	330.0	1.81	1.81	1.81
362.6	1.37	1.34	1.34	3.74	3.50	3.68	345.0	1.81	1.81	1.81
393.0	1.41	1.37	1.38	4.14	3.75	4.03	360.0	1.81	1.81	1.81
423.4	1.47	1.41	1.41	4.05	4.08	4.44	375.0	1.81	1.81	1.81
480.0	1.58	1.48	1.45	4.39	4.39	4.81	390.0	1.81	1.81	1.81
540.0	1.58	1.51	1.50	4.65	4.69	5.18	405.0	1.82	1.82	1.82
600.0	1.68	1.59	1.56	4.97	5.23	5.58	420.0	1.82	1.82	1.82
660.0	1.87	1.65	1.58	5.59	5.53	6.05	435.0	1.82	1.82	1.82
720.0	1.98	1.75	1.65	5.86	6.25	6.78	450.0	1.81	1.82	1.82
780.0	2.31	2.04	1.86	6.51	6.93	7.16	465.0	1.81	1.81	1.81
815.4	2.22	1.99	1.81	6.91	7.28	7.74	480.0	1.81	1.81	1.81
840.4	2.31	2.01	1.82	7.43	8.14	8.57	495.0	1.81	1.81	1.81
865.4	2.42	2.06	1.85	7.84	8.46	8.94	510.0	1.81	1.82	1.81
890.4	2.28	1.96	1.77	8.08	8.81	9.56	525.0	1.82	1.82	1.82
915.4	2.11	1.85	1.71	8.28	9.24	9.79	540.0	1.83	1.83	1.83
940.4	2.21	1.93	1.78	7.95	8.83	9.54	555.0	1.83	1.83	1.83
965.4	2.30	2.01	1.85	8.24	9.57	10.90	570.0	1.82	1.82	1.82
990.4	2.20	1.98	1.84	7.97	9.47	10.93	585.0	1.81	1.81	1.81
1015.4	2.20	2.00	1.86	8.34	9.96	11.33	600.0	1.81	1.81	1.81