

Frequency Mixer

HJK-ED10740/1

Typical Performance Data

RF (MHz)	LO (MHz)	CONVERSION LOSS (dB)			LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)			LO (MHz)	RF (MHz)	IP3 Input (dBm)
		@LO (dBm)				@LO (dBm)			@LO (dBm)					
		+14	+17	+20		+14	+17	+20	+14	+17	+20			
150.1	390.1	12.61	10.56	9.45	390.1	63.9	63.7	63.7	51.7	52.0	52.2	390.1	150.1	16.3
175.1	415.1	12.21	10.27	9.21	415.1	63.1	62.9	62.8	51.2	51.5	51.8	415.1	175.1	16.1
200.1	440.1	11.90	9.97	8.94	440.1	62.8	62.7	62.7	51.2	51.5	51.8	440.1	200.1	16.1
210.1	450.1	11.77	9.92	8.92	450.1	62.5	62.4	62.3	50.9	51.3	51.6	450.1	210.1	16.3
220.1	460.1	11.49	9.80	8.84	460.1	61.9	61.8	61.8	50.5	50.9	51.2	460.1	220.1	16.5
230.1	470.1	11.04	9.53	8.64	470.1	61.3	61.2	61.1	50.0	50.4	50.7	470.1	230.1	16.7
240.1	480.1	10.54	9.18	8.34	480.1	60.6	60.5	60.3	49.4	49.8	50.1	480.1	240.1	17.2
250.1	490.1	10.25	8.91	8.13	490.1	60.0	59.8	59.6	48.9	49.3	49.6	490.1	250.1	17.4
260.1	500.1	10.15	8.85	8.07	500.1	59.7	59.5	59.3	48.7	49.0	49.3	500.1	260.1	17.4
280.1	520.1	10.24	8.86	8.07	520.1	59.6	59.4	59.1	48.8	49.1	49.4	520.1	280.1	17.4
300.1	540.1	10.02	8.65	7.89	540.1	59.6	59.4	59.1	48.8	49.2	49.5	540.1	300.1	17.6
400.1	640.1	8.71	8.21	8.56	640.1	56.3	57.0	58.9	47.1	47.5	47.8	640.1	400.1	14.0
500.1	740.1	8.09	7.54	7.33	740.1	52.6	53.4	54.3	45.3	45.8	46.2	740.1	500.1	23.6
600.1	840.1	7.40	7.04	6.89	840.1	48.2	48.1	48.1	44.1	44.6	45.0	840.1	600.1	23.3
700.1	940.1	7.24	7.14	7.17	940.1	43.6	43.7	44.0	44.8	45.6	46.5	940.1	700.1	27.1
800.1	1040.1	6.96	6.91	6.94	1040.1	43.9	44.8	45.7	43.8	44.6	45.4	1040.1	800.1	31.7
900.1	1140.1	6.77	6.75	6.88	1140.1	43.5	44.7	45.9	44.0	45.0	45.7	1140.1	900.1	37.1
1000.1	1240.1	6.71	6.66	6.70	1240.1	44.2	45.0	46.1	46.3	47.7	49.7	1240.1	1000.1	33.7
1100.1	1340.1	6.73	6.59	6.56	1340.1	46.5	47.3	48.3	50.1	51.6	53.5	1340.1	1100.1	31.4
1200.1	1440.1	6.87	6.70	6.65	1440.1	47.9	48.7	49.4	51.0	52.7	54.6	1440.1	1200.1	29.8
1300.1	1540.1	7.03	6.87	6.80	1540.1	48.4	48.9	49.4	49.6	50.5	51.4	1540.1	1300.1	28.5
1400.1	1640.1	7.24	7.08	7.02	1640.1	49.4	49.5	49.6	48.4	48.9	49.3	1640.1	1400.1	27.6
1500.1	1740.1	7.33	7.16	7.11	1740.1	51.4	51.5	51.3	47.0	47.2	47.2	1740.1	1500.1	27.3
1600.1	1840.1	7.43	7.25	7.20	1840.1	53.0	54.3	55.0	44.8	44.5	44.0	1840.1	1600.1	26.6
1700.1	1940.1	7.59	7.43	7.41	1940.1	51.4	52.4	53.2	43.9	44.0	43.9	1940.1	1700.1	27.8
1710.1	1950.1	7.58	7.43	7.41	1950.1	51.2	52.1	52.8	43.7	43.9	43.8	1950.1	1710.1	28.1
1730.1	1970.1	7.50	7.37	7.35	1970.1	50.5	51.3	51.8	43.2	43.4	43.4	1970.1	1730.1	28.9
1750.1	1990.1	7.61	7.55	7.55	1990.1	49.9	50.7	51.2	42.9	43.2	43.3	1990.1	1750.1	29.5
1800.1	2040.1	7.76	7.64	7.66	2040.1	49.7	50.5	51.2	43.3	44.1	44.6	2040.1	1800.1	28.4
1900.1	2140.1	7.92	7.84	7.86	2140.1	48.1	48.9	49.6	42.8	44.1	45.3	2140.1	1900.1	28.8
2000.1	2240.1	8.06	7.99	8.01	2240.1	46.8	47.5	48.2	42.1	43.6	45.4	2240.1	2000.1	28.4
2100.1	2340.1	8.18	8.10	8.11	2340.1	45.9	46.7	47.5	41.7	43.2	45.0	2340.1	2100.1	28.3
2200.1	2440.1	8.32	8.18	8.17	2440.1	46.1	47.0	47.9	42.4	43.9	46.0	2440.1	2200.1	27.4
2300.1	2540.1	8.63	8.42	8.37	2540.1	47.9	49.0	50.4	43.3	44.6	46.3	2540.1	2300.1	26.4
2400.1	2640.1	8.99	8.74	8.68	2640.1	52.5	54.7	57.9	44.8	45.9	47.2	2640.1	2400.1	26.1
2450.1	2690.1	9.29	8.97	8.89	2690.1	57.4	60.7	68.7	46.5	47.3	48.3	2690.1	2450.1	25.1
2500.1	2740.1	9.49	9.19	9.11	2740.1	63.0	59.5	57.4	48.0	48.4	49.0	2740.1	2500.1	25.8
2550.1	2790.1	9.76	9.41	9.30	2790.1	56.4	53.2	51.4	50.6	50.3	50.1	2790.1	2550.1	24.7
2600.1	2840.1	9.94	9.60	9.52	2840.1	49.5	47.8	46.6	51.7	50.6	49.4	2840.1	2600.1	24.8
2650.1	2890.1	10.23	9.82	9.72	2890.1	45.3	44.4	43.5	50.6	49.5	48.2	2890.1	2650.1	24.0
2700.1	2940.1	10.44	10.01	9.90	2940.1	41.7	41.2	40.5	47.6	46.9	45.9	2940.1	2700.1	23.9

Frequency Mixer

HJK-ED10740/1

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
390.1	4.49	3.92	3.38	38.57	38.68	26.24	10.0	1.70	1.46	1.26
415.1	3.88	3.40	2.94	34.07	33.53	26.74	58.0	1.76	1.53	1.35
440.1	3.83	3.29	2.81	29.48	29.78	23.00	105.0	1.91	1.68	1.51
450.1	3.84	3.29	2.79	25.20	25.12	19.91	150.0	2.07	1.85	1.69
460.1	3.79	3.24	2.74	20.08	19.72	16.00	200.0	2.31	2.08	1.92
470.1	3.64	3.12	2.64	16.51	16.64	14.02	250.0	2.55	2.32	2.16
480.1	3.42	2.94	2.50	12.84	12.79	11.14	295.0	2.83	2.59	2.41
490.1	3.22	2.79	2.39	8.74	8.65	7.81	345.0	3.11	2.85	2.66
500.1	3.06	2.68	2.29	5.34	5.20	4.79	395.0	3.43	3.15	2.94
520.1	3.04	2.65	2.26	3.26	3.14	2.92	440.0	3.64	3.35	3.13
540.1	3.14	2.71	2.29	1.92	1.86	1.79	490.0	3.90	3.59	3.35
640.1	2.68	2.28	1.97	1.97	2.08	2.18	540.0	4.09	3.75	3.50
740.1	2.12	1.71	1.45	3.19	3.43	3.62	585.0	4.24	3.89	3.63
840.1	1.72	1.49	1.42	4.88	5.23	5.48	635.0	4.35	3.98	3.71
940.1	1.42	1.38	1.52	6.87	7.33	7.57	685.0	4.41	4.03	3.75
1040.1	1.33	1.42	1.54	8.85	9.46	9.71	730.0	4.43	4.03	3.75
1140.1	1.28	1.35	1.48	10.74	11.69	11.99	780.0	4.40	3.99	3.71
1240.1	1.26	1.25	1.37	12.18	13.34	13.42	830.0	4.34	3.93	3.64
1340.1	1.28	1.18	1.27	13.31	14.90	15.43	875.0	4.25	3.85	3.56
1440.1	1.30	1.13	1.25	14.14	15.68	15.68	925.0	4.12	3.72	3.44
1540.1	1.32	1.14	1.30	14.25	16.01	16.08	975.0	3.99	3.59	3.31
1640.1	1.34	1.16	1.37	14.30	15.97	16.20	1020.0	3.81	3.43	3.16
1740.1	1.30	1.17	1.40	13.66	14.90	14.39	1070.0	3.68	3.30	3.03
1840.1	1.22	1.18	1.47	13.32	14.86	14.94	1115.0	3.47	3.10	2.84
1940.1	1.10	1.23	1.57	12.78	13.91	13.32	1165.0	3.32	2.96	2.71
1950.1	1.08	1.25	1.60	12.48	13.91	13.49	1215.0	3.08	2.74	2.50
1970.1	1.01	1.34	1.70	12.21	13.19	12.56	1260.0	2.96	2.62	2.38
1990.1	1.03	1.38	1.76	11.76	12.64	11.91	1310.0	2.73	2.41	2.19
2040.1	1.07	1.36	1.74	11.59	12.17	11.50	1360.0	2.59	2.28	2.06
2140.1	1.25	1.54	1.94	11.00	11.53	10.71	1405.0	2.41	2.12	1.91
2240.1	1.49	1.72	2.12	10.57	10.89	10.12	1455.0	2.28	2.00	1.81
2340.1	1.77	1.93	2.27	9.96	10.25	9.66	1505.0	2.13	1.87	1.69
2440.1	2.07	2.14	2.41	9.42	9.52	9.00	1550.0	2.04	1.78	1.62
2540.1	2.44	2.42	2.62	8.81	8.93	8.51	1600.0	1.93	1.69	1.53
2640.1	2.81	2.73	2.89	8.14	8.17	7.81	1650.0	1.84	1.62	1.48
2690.1	3.10	2.96	3.09	7.50	7.51	7.14	1695.0	1.77	1.56	1.43
2740.1	3.08	2.95	3.07	6.78	6.80	6.55	1745.0	1.71	1.52	1.41
2790.1	3.32	3.20	3.22	6.17	6.21	5.98	1795.0	1.67	1.49	1.40
2840.1	3.33	3.23	3.22	5.49	5.54	5.36	1840.0	1.64	1.48	1.41
2890.1	3.43	3.30	3.25	4.84	4.88	4.78	1890.0	1.62	1.47	1.42
2940.1	3.67	3.52	3.44	4.22	4.28	4.20	1940.0	1.59	1.47	1.45