

Frequency Mixer (Upconverter)

HJK-U232H+

Typical Performance Data

IF INPUT (MHz)	LO INPUT (MHz)	RF OUTPUT (MHz)	CONVERSION LOSS (dB)			LO-IF ISOLATION (dB)			LO-RF ISOLATION (dB)			IP3 INPUT (dBm)		
			@LO (dBm)			@LO (dBm)			@LO (dBm)			@LO (dBm)		
			+15	+17	+19	+15	+17	+19	+15	+17	+19	+15	+17	+19
548.0	350.0	898.0	7.13	7.11	7.11	37.58	37.81	38.37	48.52	48.35	49.10	22.39	23.66	24.62
699.0	360.0	1059.0	6.93	6.83	6.83	37.06	37.29	37.87	48.75	48.53	49.66	25.32	26.54	26.99
850.0	370.0	1220.0	7.33	7.23	7.23	36.62	36.84	37.51	48.63	48.48	49.77	26.73	28.09	28.13
910.0	380.0	1290.0	7.34	7.24	7.24	36.18	36.40	37.20	48.24	48.08	49.58	28.31	29.57	29.41
970.0	390.0	1360.0	7.37	7.26	7.26	35.75	35.99	36.98	47.72	47.63	49.35	29.88	30.97	30.54
1030.0	400.0	1430.0	7.17	7.05	7.05	35.27	35.53	36.81	47.25	47.30	49.00	31.41	32.57	31.66
1071.0	405.5	1476.5	7.26	7.14	7.14	35.06	35.32	36.72	46.99	47.10	48.89	33.35	34.48	32.73
1112.0	411.0	1523.0	7.08	6.98	6.98	34.89	35.16	36.54	46.79	46.98	48.71	37.20	37.69	34.95
1153.0	416.5	1569.5	7.15	7.05	7.05	34.72	35.03	36.41	46.67	46.81	48.58	45.25	44.51	37.35
1194.0	422.0	1616.0	7.10	7.00	7.00	34.63	34.92	36.28	46.52	46.68	48.47	35.71	37.65	41.54
1235.0	427.5	1662.5	7.02	6.93	6.93	34.55	34.87	36.12	46.47	46.65	48.25	33.91	35.64	39.54
1276.0	433.0	1709.0	7.07	6.99	6.99	34.55	34.84	35.96	46.39	46.56	48.09	32.85	34.59	38.26
1317.0	438.5	1755.5	7.04	6.97	6.97	34.54	34.84	35.79	46.30	46.43	47.83	32.41	34.21	36.60
1358.0	444.0	1802.0	7.04	6.96	6.96	34.58	34.88	35.65	46.29	46.38	47.61	32.62	34.25	36.87
1399.0	449.5	1848.5	6.92	6.86	6.86	34.64	34.92	35.53	46.25	46.38	47.35	32.77	34.42	37.38
1440.0	455.0	1895.0	6.71	6.65	6.65	34.74	35.03	35.50	46.24	46.34	47.07	31.92	34.00	36.61
1481.0	460.5	1941.5	6.66	6.60	6.60	34.83	35.13	35.53	46.27	46.37	46.94	31.64	33.57	35.86
1522.0	466.0	1988.0	6.53	6.47	6.47	34.94	35.26	35.67	46.29	46.42	46.86	30.70	32.22	34.02
1563.0	471.5	2034.5	6.52	6.45	6.45	35.06	35.37	35.78	46.43	46.52	46.89	30.19	31.93	33.37
1604.0	477.0	2081.0	6.53	6.47	6.47	35.20	35.51	35.90	46.50	46.69	46.96	29.54	30.95	32.58
1645.0	482.5	2127.5	6.60	6.53	6.53	35.36	35.65	36.03	46.66	46.82	47.07	29.27	30.58	32.18
1686.0	488.0	2174.0	6.69	6.63	6.63	35.52	35.82	36.16	46.79	46.94	47.18	28.81	30.21	31.94
1727.0	493.5	2220.5	6.87	6.81	6.81	35.69	35.98	36.32	46.93	47.13	47.29	28.53	29.94	31.39
1768.0	499.0	2267.0	7.01	6.97	6.97	35.84	36.15	36.49	47.06	47.25	47.39	27.97	29.44	31.05
1809.0	504.5	2313.5	7.16	7.13	7.13	36.02	36.32	36.67	47.22	47.38	47.49	27.78	29.11	30.69
1850.0	510.0	2360.0	7.45	7.43	7.43	36.18	36.50	36.80	47.32	47.46	47.58	27.66	29.07	30.44
1870.0	520.0	2390.0	7.56	7.55	7.55	36.42	36.72	37.07	47.46	47.58	47.72	27.45	28.63	30.07
1890.0	530.0	2420.0	7.74	7.73	7.73	36.62	36.90	37.22	47.50	47.70	47.84	27.03	28.16	29.27
1910.0	540.0	2450.0	7.80	7.78	7.78	36.78	37.07	37.40	47.45	47.67	47.79	26.60	27.71	28.88
1945.0	557.5	2502.5	8.12	8.10	8.10	37.33	37.62	37.91	47.33	47.45	47.61	26.07	27.17	28.15
1980.0	575.0	2555.0	8.44	8.43	8.43	38.14	38.42	38.72	47.85	47.95	48.12	25.64	26.89	27.82

Frequency Mixer (Upconverter)

HJK-U232H+

Typical Performance Data

IF INPUT (MHz)	LO INPUT (MHz)	IF VSWR (:1)			LO INPUT (MHz)	LO VSWR (:1)			RF OUTPUT (MHz)	RF VSWR (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+15	+17	+19		+15	+17	+19		+15	+17	+19
548.0	350.0	1.80	1.79	1.79	350.0	5.23	5.19	4.68	898.0	3.45	3.48	3.50
699.0	360.0	2.77	2.75	2.74	360.0	4.58	4.53	4.05	1059.0	3.19	3.24	3.28
850.0	370.0	2.60	2.56	2.50	370.0	4.01	3.96	3.54	1220.0	2.38	2.40	2.42
910.0	380.0	2.71	2.66	2.61	380.0	3.45	3.40	3.06	1290.0	2.21	2.22	2.23
970.0	390.0	2.76	2.71	2.66	390.0	2.90	2.85	2.60	1360.0	2.22	2.23	2.24
1030.0	400.0	2.49	2.46	2.42	400.0	2.40	2.33	2.17	1430.0	2.27	2.28	2.28
1071.0	405.5	2.56	2.53	2.49	405.5	2.16	2.10	1.97	1476.5	2.06	2.06	2.06
1112.0	411.0	2.28	2.25	2.22	411.0	1.95	1.90	1.80	1523.0	2.10	2.11	2.11
1153.0	416.5	2.33	2.31	2.28	416.5	1.76	1.72	1.66	1569.5	1.93	1.94	1.93
1194.0	422.0	2.06	2.05	2.02	422.0	1.60	1.57	1.54	1616.0	1.90	1.90	1.89
1235.0	427.5	2.09	2.08	2.06	427.5	1.46	1.44	1.44	1662.5	1.78	1.78	1.77
1276.0	433.0	1.88	1.87	1.86	433.0	1.35	1.33	1.37	1709.0	1.66	1.66	1.65
1317.0	438.5	1.88	1.87	1.86	438.5	1.27	1.26	1.32	1755.5	1.62	1.61	1.61
1358.0	444.0	1.76	1.75	1.75	444.0	1.23	1.23	1.30	1802.0	1.52	1.51	1.51
1399.0	449.5	1.72	1.71	1.72	449.5	1.23	1.23	1.32	1848.5	1.56	1.56	1.57
1440.0	455.0	1.65	1.65	1.65	455.0	1.27	1.28	1.37	1895.0	1.45	1.45	1.46
1481.0	460.5	1.59	1.59	1.59	460.5	1.34	1.35	1.43	1941.5	1.46	1.48	1.50
1522.0	466.0	1.57	1.57	1.57	466.0	1.43	1.45	1.51	1988.0	1.40	1.42	1.44
1563.0	471.5	1.51	1.51	1.52	471.5	1.54	1.55	1.62	2034.5	1.43	1.46	1.49
1604.0	477.0	1.52	1.52	1.52	477.0	1.65	1.67	1.73	2081.0	1.42	1.45	1.49
1645.0	482.5	1.47	1.47	1.47	482.5	1.78	1.79	1.85	2127.5	1.48	1.52	1.56
1686.0	488.0	1.50	1.50	1.50	488.0	1.90	1.91	1.96	2174.0	1.50	1.55	1.60
1727.0	493.5	1.45	1.45	1.46	493.5	2.02	2.04	2.07	2220.5	1.58	1.63	1.69
1768.0	499.0	1.52	1.52	1.52	499.0	2.14	2.15	2.16	2267.0	1.65	1.71	1.77
1809.0	504.5	1.48	1.49	1.49	504.5	2.25	2.25	2.25	2313.5	1.76	1.83	1.89
1850.0	510.0	1.57	1.58	1.58	510.0	2.34	2.35	2.33	2360.0	1.90	1.97	2.04
1870.0	520.0	1.57	1.58	1.58	520.0	2.49	2.50	2.48	2390.0	1.96	2.04	2.12
1890.0	530.0	1.56	1.56	1.57	530.0	2.66	2.66	2.63	2420.0	2.00	2.08	2.15
1910.0	540.0	1.61	1.61	1.62	540.0	2.89	2.88	2.86	2450.0	2.11	2.20	2.28
1945.0	557.5	1.70	1.70	1.71	557.5	3.49	3.48	3.55	2502.5	2.20	2.29	2.37
1980.0	575.0	1.70	1.71	1.72	575.0	4.11	4.10	4.12	2555.0	2.45	2.56	2.66