

Frequency Mixer (Upconverter)

HJK-U151H+

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)		
			+14	+17	+19	+14	+17	+19	+14	+17	+19	+14	+17	+19
10.1	140.1	130.0	7.74	7.72	7.70	42.43	42.54	42.88	54.91	55.17	55.36	28.81	30.47	30.89
15.1	146.1	131.0	7.70	7.67	7.65	42.33	42.45	42.68	54.65	54.87	55.01	29.29	30.11	30.32
20.1	152.1	132.0	7.69	7.65	7.63	42.14	42.26	42.44	54.42	54.66	54.77	28.65	29.50	29.89
25.1	158.1	133.0	7.69	7.65	7.63	41.87	41.96	42.13	54.16	54.39	54.53	28.77	29.62	30.10
30.1	164.1	134.0	7.70	7.67	7.64	41.56	41.63	41.76	53.81	54.02	54.15	29.06	31.07	32.26
35.1	170.1	135.0	7.75	7.72	7.69	41.15	41.21	41.30	53.52	53.70	53.83	29.04	32.74	36.12
40.1	176.1	136.0	7.78	7.75	7.73	40.72	40.74	40.82	53.42	53.58	53.67	28.01	31.71	35.89
45.1	182.1	137.0	7.81	7.79	7.76	40.29	40.29	40.34	53.52	53.70	53.81	26.56	29.81	33.15
50.1	188.1	138.0	7.83	7.80	7.78	39.98	39.99	40.03	53.79	53.96	54.06	24.73	27.61	30.48
55.1	194.1	139.0	7.82	7.80	7.77	39.88	39.90	39.96	53.91	54.05	54.11	23.88	26.14	28.04
60.1	200.1	140.0	7.83	7.80	7.78	40.04	40.10	40.19	53.68	53.73	53.72	25.77	28.38	29.75
65.1	206.1	141.0	7.82	7.79	7.76	40.33	40.43	40.54	53.18	53.15	53.15	26.26	28.84	30.02
70.1	212.1	142.0	7.79	7.75	7.72	40.48	40.61	40.74	52.79	52.79	52.80	27.54	29.95	30.76
80.1	224.1	144.0	7.79	7.72	7.68	40.61	40.76	40.90	52.56	52.57	52.58	27.25	28.32	28.90
85.1	230.1	145.0	7.79	7.71	7.67	40.58	40.73	40.87	52.55	52.57	52.60	26.67	27.67	28.24
90.1	236.1	146.0	7.81	7.74	7.70	40.50	40.64	40.79	52.61	52.64	52.68	26.46	27.27	27.76
100.1	247.1	147.0	7.83	7.75	7.72	40.26	40.38	40.52	52.65	52.74	52.77	25.93	26.72	27.18
110.1	258.1	148.0	7.87	7.80	7.76	39.82	39.93	40.04	52.35	52.45	52.43	25.63	26.55	27.13
120.1	269.1	149.0	7.90	7.83	7.79	39.26	39.35	39.45	51.89	51.90	51.84	25.73	27.14	28.01
130.1	280.1	150.0	7.95	7.88	7.83	38.69	38.74	38.82	51.57	51.55	51.47	25.56	27.66	29.20

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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)		
		+14	+17	+19		+14	+17	+19		+14	+17	+19
10.1	140.1	1.46	1.50	1.53	140.1	2.33	2.34	2.24	70.0	1.93	1.98	2.01
15.1	146.1	1.45	1.49	1.52	146.1	2.32	2.32	2.27	74.0	1.92	1.97	2.00
20.1	152.1	1.43	1.47	1.50	152.1	2.31	2.31	2.28	78.0	1.91	1.96	1.99
25.1	158.1	1.41	1.46	1.49	158.1	2.31	2.31	2.29	82.0	1.91	1.95	1.99
30.1	164.1	1.40	1.44	1.47	164.1	2.32	2.32	2.31	86.0	1.90	1.95	1.98
35.1	170.1	1.39	1.42	1.45	170.1	2.34	2.34	2.33	90.0	1.89	1.94	1.97
40.1	176.1	1.37	1.41	1.43	176.1	2.37	2.37	2.36	94.0	1.89	1.94	1.97
45.1	182.1	1.37	1.40	1.43	182.1	2.41	2.41	2.40	98.0	1.88	1.93	1.97
50.1	188.1	1.37	1.41	1.43	188.1	2.46	2.46	2.45	102.0	1.88	1.92	1.96
55.1	194.1	1.39	1.43	1.46	194.1	2.52	2.52	2.51	106.0	1.87	1.92	1.96
60.1	200.1	1.42	1.47	1.50	200.1	2.59	2.59	2.58	110.0	1.87	1.91	1.95
65.1	206.1	1.45	1.50	1.54	206.1	2.67	2.67	2.66	114.0	1.86	1.91	1.95
70.1	212.1	1.45	1.51	1.54	212.1	2.75	2.76	2.74	118.0	1.86	1.91	1.94
80.1	224.1	1.44	1.50	1.54	224.1	2.91	2.91	2.89	126.0	1.85	1.90	1.94
85.1	230.1	1.44	1.49	1.53	230.1	2.97	2.98	2.96	130.0	1.85	1.90	1.94
90.1	236.1	1.43	1.48	1.52	236.1	3.01	3.02	3.01	134.0	1.85	1.90	1.94
100.1	247.1	1.43	1.48	1.51	247.1	3.03	3.03	3.02	138.0	1.85	1.90	1.94
110.1	258.1	1.43	1.47	1.50	258.1	3.00	3.00	2.99	142.0	1.85	1.90	1.94
120.1	269.1	1.43	1.47	1.50	269.1	3.00	3.00	2.99	146.0	1.85	1.90	1.94
130.10	280.10	1.44	1.47	1.49	280.1	3.12	3.11	3.12	150.0	1.85	1.90	1.94