

Frequency Mixer

HJK-ED11002/1

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)					
		+12	+15	+18		+12	+15	+18	+12	+15	+18			+15
100.0	154.6	14.86	12.80	10.86	154.6	75.5	75.2	74.5	70.0	68.0	64.9	154.6	100.0	9.9
150.0	204.6	12.29	10.37	8.74	204.6	70.1	70.3	70.7	64.8	61.4	59.0	204.6	150.0	12.2
200.0	254.6	11.14	9.37	8.09	254.6	67.8	68.8	69.9	62.6	59.6	57.9	254.6	200.0	14.6
250.0	304.6	9.09	7.82	7.04	304.6	64.1	64.8	65.5	56.8	55.3	54.4	304.6	250.0	32.0
300.0	354.6	8.02	7.14	6.59	354.6	61.4	61.6	61.7	55.2	54.6	54.2	354.6	300.0	23.4
350.0	404.6	6.84	6.47	6.20	404.6	51.4	50.5	49.8	52.0	53.0	54.0	404.6	350.0	23.3
400.0	454.6	7.64	7.54	7.48	454.6	51.3	52.3	53.4	53.2	53.5	53.3	454.6	400.0	28.9
450.0	504.6	6.98	6.98	6.96	504.6	54.1	55.0	55.9	44.2	45.6	46.7	504.6	450.0	34.4
500.0	554.6	7.02	6.87	6.75	554.6	56.0	57.0	57.8	41.6	42.4	43.0	554.6	500.0	29.1
550.0	604.6	7.48	7.12	6.89	604.6	56.6	56.5	56.6	40.7	41.4	41.9	604.6	550.0	26.5
600.0	654.6	8.57	7.81	7.36	654.6	60.0	59.9	60.0	41.2	41.8	42.3	654.6	600.0	22.2
650.0	704.6	9.06	8.18	7.68	704.6	60.8	60.7	61.0	40.0	40.7	41.1	704.6	650.0	20.9
700.0	754.6	9.96	8.75	8.09	754.6	63.5	62.0	61.0	40.3	40.7	41.1	754.6	700.0	20.6
750.0	804.6	9.87	8.70	8.07	804.6	61.3	59.2	57.6	38.9	39.3	39.6	804.6	750.0	21.3
800.0	854.6	10.75	9.22	8.39	854.6	58.6	57.0	55.8	39.1	39.5	39.9	854.6	800.0	19.7
850.0	904.6	10.36	8.97	8.22	904.6	60.7	60.0	60.0	37.7	38.2	38.6	904.6	850.0	19.4
900.0	954.6	11.13	9.32	8.34	954.6	71.9	68.1	64.0	37.5	37.9	38.4	954.6	900.0	19.3
950.0	1004.6	10.75	9.07	8.14	1004.6	66.7	63.9	63.1	35.8	36.4	37.1	1004.6	950.0	20.6
1000.0	1054.6	11.43	9.49	8.34	1054.6	66.6	63.5	62.9	35.7	36.4	37.1	1054.6	1000.0	21.6
1050.0	1104.6	10.91	9.16	8.14	1104.6	61.2	60.7	61.3	34.5	35.4	36.4	1104.6	1050.0	24.9
1100.0	1154.6	11.52	9.55	8.38	1154.6	59.3	59.4	60.5	34.6	35.6	36.7	1154.6	1100.0	23.8
1150.0	1204.6	11.07	9.25	8.24	1204.6	56.7	57.0	57.8	34.0	35.2	36.4	1204.6	1150.0	22.4
1200.0	1254.6	11.46	9.52	8.43	1254.6	55.3	55.2	55.3	34.5	35.7	37.1	1254.6	1200.0	19.8
1250.0	1304.6	11.09	9.37	8.41	1304.6	52.2	51.6	51.3	34.6	36.0	37.5	1304.6	1250.0	19.2
1300.0	1354.6	11.54	9.72	8.74	1354.6	51.4	50.9	51.0	35.7	37.3	39.4	1354.6	1300.0	16.9
1350.0	1404.6	11.57	9.75	8.80	1404.6	52.4	53.7	54.9	36.3	38.3	40.7	1404.6	1350.0	16.0
1400.0	1454.6	11.74	9.71	8.68	1454.6	52.3	54.7	57.0	37.2	38.5	40.1	1454.6	1400.0	17.4
1450.0	1504.6	10.82	9.18	8.37	1504.6	50.5	52.7	54.9	37.4	38.3	39.4	1504.6	1450.0	19.5
1500.0	1554.6	10.43	8.99	8.29	1554.6	49.3	51.2	53.1	38.1	38.7	39.5	1554.6	1500.0	20.7
1550.0	1604.6	9.68	8.68	8.18	1604.6	48.0	49.8	51.3	38.1	38.7	39.4	1604.6	1550.0	22.4
1600.0	1654.6	9.50	8.70	8.32	1654.6	47.3	48.9	50.2	38.7	39.2	39.9	1654.6	1600.0	23.5
1650.0	1704.6	9.14	8.65	8.43	1704.6	46.3	47.7	48.8	38.3	38.9	39.5	1704.6	1650.0	25.6
1700.0	1754.6	9.13	8.77	8.66	1754.6	45.6	47.0	48.1	38.4	39.0	39.5	1754.6	1700.0	26.6
1750.0	1804.6	9.07	8.90	8.87	1804.6	44.6	45.9	46.9	37.4	38.0	38.4	1804.6	1750.0	27.8
1800.0	1854.6	9.23	9.09	9.07	1854.6	43.9	45.1	46.1	37.1	37.6	38.0	1854.6	1800.0	28.7
1850.0	1904.6	9.41	9.30	9.30	1904.6	42.9	44.0	44.9	36.7	37.3	37.7	1904.6	1850.0	29.6
1900.0	1954.6	9.71	9.57	9.56	1954.6	42.4	43.3	44.0	37.0	37.5	37.9	1954.6	1900.0	28.5
1950.0	2004.6	10.07	9.86	9.82	2004.6	42.6	43.3	44.0	37.7	38.3	38.7	2004.6	1950.0	26.6
2000.0	2054.6	10.47	10.16	10.07	2054.6	43.2	43.7	44.1	38.5	39.0	39.4	2054.6	2000.0	25.5
2050.0	2104.6	11.00	10.50	10.32	2104.6	44.3	44.6	44.9	39.4	40.0	40.4	2104.6	2050.0	24.6
2100.0	2154.6	11.68	10.91	10.62	2154.6	45.5	45.6	45.7	40.3	40.8	41.3	2154.6	2100.0	23.0

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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)		
	+12	+15	+18	+12	+15	+18		+12	+15	+18
154.6	4.64	3.88	3.10	57.40	53.76	56.01	10.0	1.07	1.04	1.13
204.6	3.93	3.08	2.38	47.58	44.26	46.38	26.0	1.07	1.05	1.13
254.6	3.64	2.79	2.17	40.70	36.76	36.94	42.0	1.09	1.07	1.14
304.6	2.74	2.19	1.84	31.88	29.54	28.85	58.0	1.11	1.08	1.14
354.6	2.51	2.06	1.81	22.08	20.97	20.65	74.0	1.14	1.09	1.14
404.6	2.07	1.89	1.77	10.22	9.70	9.63	90.0	1.16	1.11	1.14
454.6	2.31	2.05	1.67	2.59	2.52	2.49	105.0	1.17	1.11	1.14
504.6	1.64	1.60	1.59	1.99	2.10	2.24	120.0	1.19	1.13	1.14
554.6	2.18	1.97	1.84	6.71	6.96	7.18	135.0	1.20	1.14	1.15
604.6	2.80	2.47	2.25	12.76	13.31	13.95	150.0	1.22	1.16	1.16
654.6	3.97	3.33	2.92	18.22	18.71	19.50	170.0	1.25	1.18	1.17
704.6	4.04	3.42	3.01	21.81	21.96	22.37	185.0	1.28	1.20	1.18
754.6	5.12	3.98	3.35	24.26	24.17	24.12	200.0	1.29	1.21	1.18
804.6	4.96	3.87	3.23	24.97	25.33	26.01	215.0	1.30	1.22	1.19
854.6	5.87	4.48	3.57	25.84	26.49	27.52	230.0	1.31	1.23	1.20
904.6	5.44	4.04	3.21	25.29	25.13	25.66	250.0	1.34	1.25	1.21
954.6	4.94	3.86	3.12	24.50	24.83	25.50	265.0	1.36	1.27	1.23
1004.6	5.63	4.19	3.12	25.10	25.89	26.84	280.0	1.38	1.29	1.24
1054.6	5.70	4.34	3.25	24.51	25.39	26.75	295.0	1.40	1.31	1.26
1104.6	5.74	4.22	3.11	24.90	25.35	26.25	310.0	1.42	1.32	1.27
1154.6	6.05	4.50	3.34	25.34	25.66	26.56	330.0	1.43	1.34	1.28
1204.6	5.08	3.81	2.88	25.46	26.06	27.04	345.0	1.45	1.35	1.29
1254.6	5.82	4.23	3.15	23.65	24.30	24.88	360.0	1.46	1.36	1.30
1304.6	4.18	3.21	2.58	22.50	23.03	23.45	375.0	1.48	1.38	1.31
1354.6	4.42	3.37	2.66	21.27	21.54	21.87	390.0	1.50	1.40	1.33
1404.6	3.23	2.59	2.12	21.38	22.40	23.93	410.0	1.52	1.41	1.34
1454.6	3.01	2.38	1.91	20.82	21.49	21.98	425.0	1.53	1.43	1.35
1504.6	2.30	1.81	1.46	19.48	20.12	20.34	440.0	1.54	1.43	1.36
1554.6	2.00	1.57	1.25	18.47	19.02	19.26	455.0	1.54	1.44	1.37
1604.6	1.58	1.22	1.09	17.30	18.01	18.58	470.0	1.56	1.45	1.38
1654.6	1.38	1.06	1.20	16.33	17.23	17.95	490.0	1.57	1.47	1.40
1704.6	1.19	1.19	1.48	14.51	14.64	14.41	505.0	1.59	1.49	1.41
1754.6	1.26	1.36	1.66	13.07	13.39	13.43	520.0	1.60	1.50	1.42
1804.6	1.47	1.66	1.98	11.19	11.15	10.94	535.0	1.61	1.50	1.43
1854.6	1.68	1.87	2.17	9.70	9.71	9.60	550.0	1.61	1.51	1.43
1904.6	1.95	2.15	2.44	7.93	7.72	7.49	570.0	1.61	1.51	1.43
1954.6	2.24	2.44	2.70	6.15	5.88	5.67	585.0	1.61	1.51	1.44
2004.6	2.42	2.57	2.76	4.44	4.20	4.00	600.0	1.62	1.52	1.44
2054.6	2.75	2.88	3.05	3.09	2.86	2.69	615.0	1.62	1.53	1.45
2104.6	2.77	2.83	2.93	2.08	1.93	1.83	630.0	1.63	1.53	1.46
2154.6	3.06	3.07	3.12	1.58	1.58	1.61	650.0	1.59	1.50	1.43