

Frequency Mixer

HJK-ED11277D/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)					
		+18	+21	+24		+18	+21	+24	+18	+21	+24			
30.0	502.5	11.02	9.98	9.40	502.5	47.1	47.5	48.1	46.4	46.5	46.6	512.5	40.0	20.1
42.0	514.5	9.40	8.59	8.18	514.5	46.9	47.2	48.0	46.3	46.3	46.2	527.5	55.0	20.3
54.0	526.5	8.65	8.06	7.77	526.5	45.8	46.2	46.9	45.7	45.6	45.5	542.5	70.0	21.4
66.0	538.5	8.09	7.65	7.45	538.5	45.1	45.5	46.1	45.0	44.9	44.7	557.5	85.0	21.0
78.0	550.5	7.75	7.40	7.23	550.5	44.7	45.0	45.5	44.8	44.6	44.3	572.5	100.0	20.2
90.0	562.5	7.72	7.31	7.14	562.5	45.1	45.2	45.4	45.5	45.3	45.0	632.0	159.5	21.5
102.0	574.5	7.75	7.25	7.04	574.5	46.2	46.2	46.4	46.4	46.3	45.9	691.4	218.9	21.1
114.0	586.5	7.72	7.16	6.91	586.5	46.9	46.7	46.9	47.0	46.9	46.6	750.9	278.4	23.2
126.0	598.5	7.57	7.04	6.79	598.5	47.0	46.9	47.2	47.0	46.8	46.4	810.3	337.8	27.3
138.0	610.5	7.40	6.95	6.73	610.5	46.3	46.3	46.7	46.2	45.9	45.5	869.8	397.3	24.2
150.0	622.5	7.20	6.84	6.71	622.5	45.0	45.0	45.4	44.9	44.5	44.1	929.2	456.7	23.9
179.5	652.0	7.11	6.79	6.66	652.0	44.8	44.8	45.1	44.5	44.1	43.6	988.7	516.2	23.2
209.0	681.5	7.23	6.77	6.57	681.5	46.1	46.1	46.2	45.8	45.4	44.8	1048.1	575.6	26.2
238.5	711.0	7.02	6.66	6.52	711.0	45.1	45.2	45.6	44.4	43.9	43.5	1107.6	635.1	27.7
268.0	740.5	6.84	6.56	6.47	740.5	43.5	43.5	43.7	43.1	42.5	42.0	1167.0	694.5	29.4
353.3	825.8	6.89	6.59	6.49	825.8	42.0	41.9	42.0	42.5	42.1	41.9	1245.0	772.5	27.9
438.6	911.1	8.03	7.75	7.61	911.1	35.0	34.7	34.7	47.4	43.9	41.7	1323.0	850.5	27.3
523.9	996.4	6.89	6.59	6.48	996.4	36.5	36.5	36.8	37.7	37.3	37.1	1401.0	928.5	26.9
609.2	1081.7	6.70	6.41	6.31	1081.7	36.3	36.3	36.5	37.9	37.7	37.6	1479.0	1006.5	26.5
694.5	1167.0	6.66	6.32	6.18	1167.0	35.2	35.0	35.1	39.0	38.8	38.8	1557.0	1084.5	26.5
870.0	1342.5	6.89	6.54	6.37	1342.5	33.5	33.6	34.0	39.5	39.3	39.4	1635.0	1162.5	27.3
875.0	1347.5	6.88	6.55	6.38	1347.5	33.4	33.6	33.9	39.7	39.5	39.6	1713.0	1240.5	28.5
880.0	1352.5	6.89	6.57	6.40	1352.5	33.2	33.4	33.8	39.8	39.5	39.6	1791.0	1318.5	31.2
885.0	1357.5	6.91	6.59	6.43	1357.5	33.1	33.2	33.6	39.8	39.6	39.6	1869.0	1396.5	28.0
890.0	1362.5	6.95	6.61	6.46	1362.5	32.9	33.0	33.4	39.8	39.6	39.5	1947.0	1474.5	25.0
900.0	1372.5	6.93	6.62	6.45	1372.5	32.4	32.7	33.0	39.8	39.5	39.3	1972.5	1500.0	23.8
947.5	1420.0	7.07	6.74	6.57	1420.0	33.2	33.4	33.9	42.1	41.5	40.8	1996.5	1524.0	24.4
995.0	1467.5	7.00	6.69	6.55	1467.5	32.1	32.4	32.9	39.5	39.0	38.2	2020.5	1548.0	24.5
1042.5	1515.0	7.20	6.80	6.59	1515.0	33.6	33.9	34.3	38.2	38.1	37.5	2044.5	1572.0	22.6
1090.0	1562.5	7.09	6.73	6.57	1562.5	32.9	33.2	33.6	34.0	33.9	33.5	2068.5	1596.0	21.9
1282.3	1754.8	7.43	7.02	6.75	1754.8	30.4	32.2	33.8	31.8	32.3	32.6	2092.5	1620.0	23.4
1474.5	1947.0	7.78	7.28	7.05	1947.0	32.4	33.5	34.3	33.2	33.3	33.4	2116.5	1644.0	23.4
1490.0	1962.5	7.98	7.39	7.09	1962.5	32.9	34.0	34.9	33.6	33.7	33.7	2140.5	1668.0	21.5
1591.3	2063.8	8.22	7.63	7.36	2063.8	34.0	34.9	35.5	32.9	32.8	32.5	2164.5	1692.0	21.2
1692.5	2165.0	8.49	7.94	7.68	2165.0	34.0	34.6	35.0	32.4	32.0	31.5	2188.5	1716.0	22.8
1793.8	2266.3	8.73	8.19	7.98	2266.3	33.5	33.9	34.3	31.1	30.6	30.1	2212.5	1740.0	22.2
1895.0	2367.5	9.14	8.59	8.40	2367.5	34.1	34.4	34.8	29.5	28.9	28.4	2236.5	1764.0	20.1
1996.3	2468.8	10.02	9.27	9.00	2468.8	34.6	35.4	36.3	27.7	27.1	26.5	2260.5	1788.0	20.3
2097.5	2570.0	11.04	9.94	9.47	2570.0	33.7	34.5	35.1	27.9	27.1	26.4	2284.5	1812.0	21.8
2198.8	2671.3	12.15	10.75	10.09	2671.3	33.9	34.1	33.9	29.0	28.2	27.6	2308.5	1836.0	20.7
2300.0	2772.5	13.62	11.88	10.98	2772.5	34.4	34.1	33.5	29.9	29.2	28.7	2332.5	1860.0	19.4

Frequency Mixer

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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
502.5	3.30	3.37	3.41	37.35	38.63	27.62	10.0	1.38	1.41	1.44
514.5	2.95	3.03	3.08	34.13	35.02	27.91	57.0	1.38	1.41	1.43
526.5	2.77	2.84	2.91	31.01	30.93	29.81	100.0	1.36	1.38	1.41
538.5	2.62	2.70	2.77	26.61	26.66	24.33	150.0	1.36	1.38	1.41
550.5	2.54	2.61	2.69	22.34	22.34	19.82	195.0	1.34	1.37	1.39
562.5	2.48	2.56	2.63	18.99	19.25	17.74	245.0	1.34	1.37	1.39
574.5	2.43	2.51	2.59	17.93	18.25	17.30	290.0	1.34	1.36	1.38
586.5	2.28	2.36	2.44	16.00	16.13	16.22	340.0	1.33	1.35	1.37
598.5	2.08	2.16	2.22	13.81	13.89	13.62	385.0	1.33	1.35	1.36
610.5	2.04	2.11	2.18	12.15	12.35	11.92	435.0	1.31	1.33	1.34
622.5	1.91	1.96	2.02	10.37	10.64	10.52	480.0	1.30	1.32	1.33
652.0	1.85	1.89	1.93	8.72	8.96	9.11	525.0	1.28	1.29	1.31
681.5	1.86	1.90	1.93	7.29	7.48	7.75	575.0	1.25	1.26	1.27
711.0	1.91	1.94	1.97	6.16	6.27	6.54	620.0	1.23	1.24	1.25
740.5	1.91	1.93	1.95	5.22	5.33	5.53	670.0	1.18	1.19	1.20
825.8	1.95	1.97	1.99	4.46	4.53	4.70	715.0	1.16	1.17	1.19
911.1	1.86	1.87	1.88	4.51	4.65	4.93	765.0	1.10	1.11	1.13
996.4	1.69	1.70	1.70	4.66	4.82	5.11	810.0	1.10	1.11	1.13
1081.7	1.54	1.53	1.53	4.90	5.07	5.42	860.0	1.06	1.08	1.10
1167.0	1.46	1.45	1.44	5.20	5.35	5.68	905.0	1.09	1.12	1.14
1342.5	1.38	1.36	1.35	5.62	5.79	6.16	955.0	1.09	1.11	1.13
1347.5	1.26	1.25	1.25	6.08	6.31	6.67	1000.0	1.15	1.18	1.19
1352.5	1.22	1.25	1.28	6.54	6.76	7.01	1045.0	1.15	1.17	1.19
1357.5	1.37	1.42	1.47	7.01	7.28	7.70	1095.0	1.21	1.23	1.25
1362.5	1.41	1.47	1.52	7.26	7.44	7.65	1140.0	1.21	1.24	1.25
1372.5	1.50	1.56	1.61	7.56	7.82	8.14	1190.0	1.25	1.27	1.29
1420.0	1.62	1.69	1.74	7.60	7.79	7.90	1235.0	1.28	1.30	1.32
1467.5	1.69	1.76	1.82	7.70	7.93	8.01	1285.0	1.28	1.30	1.32
1515.0	1.81	1.88	1.94	7.50	7.66	7.80	1330.0	1.33	1.35	1.37
1562.5	1.97	2.05	2.12	7.31	7.45	7.71	1380.0	1.32	1.33	1.35
1754.8	2.05	2.13	2.19	6.96	7.09	7.32	1425.0	1.39	1.41	1.42
1947.0	2.21	2.29	2.36	6.57	6.67	6.83	1470.0	1.37	1.39	1.40
1962.5	2.42	2.52	2.60	6.09	6.18	6.33	1520.0	1.44	1.45	1.47
2063.8	2.46	2.56	2.63	5.62	5.68	5.79	1565.0	1.44	1.45	1.47
2165.0	2.69	2.79	2.88	5.19	5.26	5.42	1615.0	1.48	1.50	1.51
2266.3	2.87	2.99	3.09	4.71	4.76	4.86	1660.0	1.52	1.53	1.55
2367.5	2.85	2.96	3.05	4.28	4.33	4.43	1710.0	1.54	1.55	1.56
2468.8	3.11	3.24	3.34	3.83	3.85	3.90	1755.0	1.61	1.62	1.63
2570.0	3.17	3.27	3.38	3.32	3.33	3.37	1805.0	1.60	1.61	1.62
2671.3	3.13	3.23	3.32	3.13	3.15	3.20	1850.0	1.70	1.71	1.72
2772.5	3.40	3.51	3.62	3.55	3.60	3.62	1900.0	1.67	1.68	1.69