

Frequency Mixer

HJK-ED11277D

Typical Performance Data

RF (MHz)	LO (MHz)	CONVERSION LOSS (dB)			LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)			LO (MHz)	RF (MHz)	IP-3 Input (dBm)
		@LO (dBm)				@LO (dBm)			@LO (dBm)					@LO (dBm)
		+18	+21	+24		+18	+21	+24	+18	+21	+24			+21
32.0	62.0	15.17	13.93	12.76	62.0	79.5	79.1	78.2	55.2	55.4	55.5	1230.0	1200.0	31.5
49.0	79.0	11.88	10.94	9.97	79.0	79.4	78.9	78.2	53.0	53.2	53.2	1240.0	1210.0	31.7
66.0	96.0	10.29	9.51	8.73	96.0	79.1	79.5	80.4	51.5	51.7	51.9	1250.0	1220.0	31.0
83.0	113.0	9.80	9.06	8.48	113.0	77.1	77.9	77.8	50.2	50.4	50.9	1260.0	1230.0	31.1
100.0	130.0	9.71	8.99	8.45	130.0	73.9	74.4	74.7	48.9	49.0	49.5	1270.0	1240.0	30.7
195.0	225.0	11.12	11.17	11.73	225.0	57.9	57.7	57.6	43.4	43.7	44.4	1280.0	1250.0	30.8
290.0	320.0	12.76	12.50	12.43	320.0	50.9	50.9	51.1	40.7	41.2	41.6	1290.0	1260.0	30.8
385.0	415.0	12.91	12.85	12.83	415.0	44.9	45.2	45.7	38.3	38.3	38.3	1300.0	1270.0	29.8
480.0	510.0	11.31	11.11	11.03	510.0	42.7	43.1	43.4	37.0	37.0	37.1	1310.0	1280.0	29.3
489.5	519.5	11.06	10.82	10.72	519.5	42.1	42.3	42.6	36.5	36.6	36.6	1320.0	1290.0	28.8
499.0	529.0	10.91	10.64	10.49	529.0	42.8	43.0	43.3	38.0	38.0	38.0	1330.0	1300.0	28.6
508.5	538.5	10.64	10.39	10.25	538.5	42.1	42.4	42.7	37.4	37.3	37.2	1340.0	1310.0	28.9
518.0	548.0	10.31	10.08	9.95	548.0	43.1	43.4	43.6	38.2	38.1	38.1	1350.0	1320.0	28.4
527.5	557.5	10.05	9.83	9.69	557.5	43.3	43.7	43.9	37.0	36.8	36.7	1360.0	1330.0	28.2
537.0	567.0	9.88	9.64	9.49	567.0	45.1	45.7	46.3	36.8	36.6	36.7	1370.0	1340.0	27.9
546.5	576.5	9.82	9.56	9.42	576.5	45.0	45.8	46.6	36.7	36.6	36.7	1380.0	1350.0	27.3
556.0	586.0	9.81	9.55	9.38	586.0	43.9	44.6	45.3	36.8	36.9	37.0	1390.0	1360.0	27.3
565.5	595.5	9.71	9.43	9.24	595.5	43.5	44.0	44.5	37.5	37.6	37.7	1400.0	1370.0	27.4
575.0	605.0	9.49	9.20	8.98	605.0	42.5	42.9	43.3	37.2	37.3	37.5	1410.0	1380.0	27.2
584.5	614.5	9.29	8.97	8.73	614.5	42.3	42.7	43.1	37.7	37.9	38.2	1420.0	1390.0	27.2
594.0	624.0	9.12	8.78	8.53	624.0	41.4	41.7	42.0	37.5	37.7	38.0	1430.0	1400.0	26.9
603.5	633.5	8.87	8.55	8.32	633.5	41.0	41.2	41.5	37.9	38.2	38.5	1440.0	1410.0	26.6
613.0	643.0	8.58	8.29	8.08	643.0	40.1	40.2	40.3	37.9	38.3	38.7	1450.0	1420.0	26.7
622.5	652.5	8.32	8.07	7.88	652.5	38.4	38.3	38.3	37.6	38.2	38.8	1460.0	1430.0	26.6
632.0	662.0	8.20	7.95	7.75	662.0	36.7	36.5	36.5	36.4	37.0	37.8	1470.0	1440.0	26.6
641.5	671.5	8.19	7.94	7.72	671.5	36.4	36.5	36.8	35.6	36.0	36.7	1480.0	1450.0	26.7
651.0	681.0	8.26	7.98	7.77	681.0	37.1	37.6	38.1	35.9	36.7	37.8	1490.0	1460.0	26.6
660.5	690.5	8.27	7.99	7.78	690.5	36.6	37.1	37.6	37.2	38.6	40.1	1500.0	1470.0	26.6
670.0	700.0	8.22	7.92	7.71	700.0	35.4	35.9	36.5	40.8	42.4	43.8	1510.0	1480.0	26.5
712.0	742.0	7.53	7.29	7.15	742.0	34.4	35.1	35.9	46.2	47.6	47.7	1520.0	1490.0	26.3
754.0	784.0	7.51	7.30	7.18	784.0	34.1	34.8	35.6	49.7	55.2	57.7	1530.0	1500.0	26.4
796.0	826.0	7.39	7.14	7.01	826.0	34.4	34.9	35.7	43.0	45.1	47.9	1540.0	1510.0	26.6
838.0	868.0	7.02	6.87	6.81	868.0	35.2	35.8	36.5	39.6	40.6	41.8	1550.0	1520.0	26.7
880.0	910.0	7.36	7.11	6.97	910.0	36.0	36.6	37.3	38.9	39.6	40.6	1560.0	1530.0	26.7
922.0	952.0	6.89	6.75	6.71	952.0	37.5	38.2	38.9	39.1	39.8	40.8	1570.0	1540.0	26.7
964.0	994.0	7.20	6.99	6.88	994.0	39.5	41.1	42.6	43.6	45.6	47.7	1580.0	1550.0	26.6
1006.0	1036.0	7.00	6.83	6.76	1036.0	36.9	37.8	38.6	42.4	42.7	42.7	1590.0	1560.0	26.6
1048.0	1078.0	6.92	6.78	6.72	1078.0	37.7	37.7	37.8	40.7	40.2	39.9	1600.0	1570.0	26.7
1090.0	1120.0	7.11	6.91	6.81	1120.0	39.5	39.5	39.5	42.0	41.8	41.6	1610.0	1580.0	26.9
1109.3	1139.3	6.89	6.76	6.72	1139.3	41.6	42.3	42.9	41.2	39.4	38.2	1620.0	1590.0	26.9
1128.5	1158.5	6.76	6.66	6.64	1158.5	47.0	49.6	52.2	37.7	36.1	35.0	1630.0	1600.0	26.8

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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
62.0	4.93	4.54	4.09	2.87	2.88	2.83	1.0	1.44	1.52	1.63
79.0	3.24	3.02	2.80	2.85	2.84	2.84	18.3	1.08	1.23	1.36
96.0	2.63	2.45	2.32	2.86	2.84	2.90	35.7	1.09	1.23	1.37
113.0	2.21	2.06	1.95	3.40	3.38	3.37	53.0	1.10	1.24	1.37
130.0	1.49	1.30	1.09	4.60	4.64	4.73	70.0	1.12	1.25	1.38
225.0	1.43	1.43	1.50	9.56	9.65	10.17	78.0	1.13	1.25	1.39
320.0	1.74	1.84	1.97	13.71	13.58	13.63	86.0	1.14	1.26	1.39
415.0	1.90	1.97	2.05	7.37	7.18	6.86	94.0	1.15	1.27	1.40
510.0	1.89	1.92	1.96	4.94	4.90	4.83	102.0	1.16	1.28	1.41
519.5	1.94	1.93	1.94	3.48	3.48	3.47	110.0	1.18	1.29	1.42
529.0	1.96	1.92	1.92	5.42	5.44	5.44	144.0	1.23	1.33	1.45
538.5	2.01	1.92	1.87	4.85	4.87	4.88	178.0	1.29	1.38	1.49
548.0	1.95	1.85	1.79	5.11	5.11	5.10	212.0	1.35	1.44	1.56
557.5	1.96	1.83	1.75	5.10	5.09	5.05	246.0	1.41	1.50	1.61
567.0	1.93	1.79	1.69	5.64	5.62	5.58	280.0	1.48	1.56	1.67
576.5	1.94	1.79	1.68	4.49	4.46	4.40	314.0	1.55	1.63	1.73
586.0	1.97	1.80	1.67	5.27	5.22	5.16	348.0	1.60	1.68	1.78
595.5	1.93	1.76	1.62	3.95	3.92	3.85	382.0	1.66	1.74	1.84
605.0	1.97	1.78	1.63	4.31	4.25	4.18	416.0	1.73	1.81	1.91
614.5	1.93	1.74	1.58	3.49	3.45	3.39	450.0	1.79	1.87	1.97
624.0	1.96	1.76	1.58	3.39	3.34	3.28	495.0	1.86	1.93	2.03
633.5	1.94	1.73	1.56	3.07	3.02	2.96	540.0	1.89	1.95	2.04
643.0	1.94	1.73	1.57	2.64	2.60	2.55	585.0	1.93	1.99	2.07
652.5	1.88	1.69	1.54	2.09	2.05	2.02	630.0	1.92	1.96	2.03
662.0	1.70	1.52	1.39	1.72	1.70	1.66	675.0	1.94	1.97	2.03
671.5	1.50	1.35	1.23	1.48	1.46	1.44	720.0	1.91	1.93	1.98
681.0	1.32	1.19	1.08	1.36	1.36	1.36	765.0	1.91	1.91	1.95
690.5	1.15	1.08	1.12	1.45	1.47	1.50	810.0	1.88	1.86	1.88
700.0	1.17	1.23	1.34	1.70	1.75	1.79	855.0	1.87	1.83	1.84
742.0	1.37	1.48	1.60	2.06	2.12	2.18	900.0	1.85	1.79	1.79
784.0	1.61	1.73	1.86	2.50	2.56	2.64	900.1	1.85	1.79	1.79
826.0	1.86	1.98	2.11	2.95	3.02	3.11	950.1	1.85	1.77	1.75
868.0	2.04	2.17	2.30	3.31	3.37	3.45	1000.1	1.84	1.74	1.69
910.0	2.08	2.20	2.32	3.31	3.38	3.44	1050.1	1.85	1.73	1.66
952.0	2.19	2.31	2.43	3.90	3.97	4.05	1100.1	1.84	1.70	1.62
994.0	3.17	3.30	3.43	3.87	3.89	3.87	1150.1	1.87	1.71	1.61
1036.0	4.41	4.42	4.46	3.53	3.53	3.48	1200.1	1.89	1.73	1.61
1078.0	6.77	6.26	5.95	3.16	3.15	3.12	1250.1	1.90	1.73	1.61
1120.0	5.56	5.01	4.61	3.11	3.11	3.08	1300.1	1.88	1.72	1.60
1139.3	3.92	3.56	3.28	2.44	2.44	2.43	1350.1	1.85	1.70	1.59
1158.5	3.02	3.03	3.05	1.94	1.95	1.93	1400.1	1.80	1.67	1.57