

Frequency Mixer

HJK-ED9193/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=262MHz (dB)		
		@LO (dBm)		
		+14	+17	+20
1462.1	1200.1	10.57	10.34	10.24
1497.1	1235.1	9.23	8.77	8.43
1532.1	1270.1	8.59	8.15	7.93
1567.1	1305.1	8.89	8.48	8.30
1602.1	1340.1	8.83	8.36	8.08
1637.1	1375.1	8.60	8.07	7.85
1667.1	1405.1	8.46	8.00	7.83
1702.1	1440.1	8.14	7.82	7.71
1732.1	1470.1	8.17	7.93	7.85
1767.1	1505.1	8.12	7.91	7.83
1797.1	1535.1	7.96	7.81	7.76
1832.1	1570.1	8.05	7.90	7.86
1862.1	1600.1	8.00	7.85	7.80
1897.1	1635.1	7.79	7.66	7.63
1927.1	1665.1	7.83	7.69	7.64
1962.1	1700.1	7.67	7.51	7.44
1992.1	1730.1	7.51	7.38	7.34
2027.1	1765.1	7.58	7.45	7.40
2057.1	1795.1	7.48	7.36	7.32
2092.1	1830.1	7.49	7.41	7.40
2122.1	1860.1	7.62	7.50	7.46
2157.1	1895.1	7.39	7.26	7.21
2187.1	1925.1	7.37	7.26	7.22
2222.1	1960.1	7.56	7.41	7.34
2252.1	1990.1	7.46	7.33	7.29
2287.1	2025.1	7.55	7.44	7.40
2317.1	2055.1	7.68	7.55	7.49
2352.1	2090.1	7.54	7.41	7.35
2382.1	2120.1	7.56	7.42	7.36
2417.1	2155.1	7.65	7.48	7.40
2447.1	2185.1	7.52	7.37	7.29
2482.1	2220.1	7.65	7.48	7.40
2512.1	2250.1	7.71	7.54	7.46
2547.1	2285.1	7.68	7.52	7.45
2577.1	2315.1	7.80	7.62	7.56
2612.1	2350.1	7.91	7.68	7.59
2642.1	2380.1	7.99	7.72	7.60
2677.1	2415.1	8.37	8.07	7.91
2707.1	2445.1	9.17	9.07	9.10
2742.1	2480.1	10.91	11.08	11.26

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+14	+17	+20
1462.1	1200.1	17.52	19.89	23.64
1497.1	1235.1	19.26	22.27	24.03
1532.1	1270.1	22.67	24.99	27.02
1567.1	1305.1	20.90	21.85	23.38
1602.1	1340.1	19.72	23.11	25.59
1637.1	1375.1	21.51	23.19	25.94
1667.1	1405.1	21.58	24.48	27.95
1702.1	1440.1	22.96	26.62	30.15
1732.1	1470.1	24.54	27.80	31.08
1767.1	1505.1	25.75	28.30	31.42
1797.1	1535.1	26.86	28.71	31.75
1832.1	1570.1	27.88	29.04	31.99
1862.1	1600.1	28.21	29.34	31.83
1897.1	1635.1	28.66	30.03	32.98
1927.1	1665.1	28.18	30.07	33.01
1962.1	1700.1	28.53	30.24	33.13
1992.1	1730.1	29.51	31.15	33.58
2027.1	1765.1	29.72	31.01	33.13
2057.1	1795.1	30.40	31.78	34.15
2092.1	1830.1	31.19	32.71	35.42
2122.1	1860.1	30.75	32.41	35.08
2157.1	1895.1	30.55	32.75	35.84
2187.1	1925.1	29.91	33.09	35.41
2222.1	1960.1	29.45	32.90	35.33
2252.1	1990.1	29.76	33.16	36.05
2287.1	2025.1	29.26	33.59	36.18
2317.1	2055.1	29.13	34.25	36.92
2352.1	2090.1	28.84	34.17	36.65
2382.1	2120.1	27.51	32.98	36.11
2417.1	2155.1	27.75	33.13	36.36
2447.1	2185.1	27.37	32.41	36.41
2482.1	2220.1	25.85	30.33	34.91
2512.1	2250.1	26.19	30.39	33.85
2547.1	2285.1	25.16	28.71	31.84
2577.1	2315.1	24.21	27.57	30.39
2612.1	2350.1	24.16	27.59	30.44
2642.1	2380.1	22.86	26.51	29.68
2677.1	2415.1	21.95	25.02	28.34
2707.1	2445.1	21.82	23.51	25.83
2742.1	2480.1	20.80	23.46	26.73

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+2dBm (dB)		
		@LO (dBm)		
		+14	+17	+20
1462.1	1200.1	0.18	0.07	0.02
1497.1	1235.1	0.14	0.07	0.04
1532.1	1270.1	0.07	0.03	0.01
1567.1	1305.1	0.02	-0.01	-0.02
1602.1	1340.1	-0.08	0.03	0.07
1637.1	1375.1	0.13	0.07	0.03
1667.1	1405.1	0.11	0.04	0.02
1702.1	1440.1	0.07	0.03	0.01
1732.1	1470.1	0.05	0.02	0.01
1767.1	1505.1	0.04	0.02	0.01
1797.1	1535.1	0.03	0.01	0.01
1832.1	1570.1	0.03	0.01	0.00
1862.1	1600.1	0.02	0.01	0.01
1897.1	1635.1	0.02	0.02	0.01
1927.1	1665.1	0.02	0.01	0.00
1962.1	1700.1	0.02	0.01	0.01
1992.1	1730.1	0.02	0.01	0.00
2027.1	1765.1	0.01	0.00	0.01
2057.1	1795.1	0.02	0.01	0.00
2092.1	1830.1	0.01	0.00	0.00
2122.1	1860.1	0.01	0.01	0.00
2157.1	1895.1	0.02	0.01	0.00
2187.1	1925.1	0.01	0.01	0.01
2222.1	1960.1	0.01	0.01	0.01
2252.1	1990.1	0.01	0.01	0.01
2287.1	2025.1	0.01	0.00	0.00
2317.1	2055.1	0.01	0.00	0.00
2352.1	2090.1	0.01	0.00	0.01
2382.1	2120.1	0.01	0.00	0.00
2417.1	2155.1	0.01	0.01	0.01
2447.1	2185.1	0.00	0.01	0.00
2482.1	2220.1	0.01	0.00	0.01
2512.1	2250.1	0.00	0.01	0.00
2547.1	2285.1	0.01	0.01	0.00
2577.1	2315.1	0.01	0.01	0.00
2612.1	2350.1	0.01	0.00	0.00
2642.1	2380.1	0.03	0.01	0.01
2677.1	2415.1	0.07	0.03	0.02
2707.1	2445.1	0.12	0.07	0.04
2742.1	2480.1	0.10	0.06	0.04

REV. X2

HJK-ED9193/1

101012

Page 1 of 5



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Frequency Mixer

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1950MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1909.9MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1990.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
710.0	1240.0	10.25	10.1	1920.0	7.92	770.1	1220.0	10.89
661.7	1288.3	9.78	23.4	1933.3	7.73	750.6	1239.5	10.33
613.4	1336.6	9.52	36.8	1946.7	7.66	731.1	1259.0	9.99
589.3	1360.7	8.85	50.1	1960.0	7.65	711.6	1278.5	9.69
541.0	1409.0	8.35	63.4	1973.3	7.65	692.2	1297.9	9.82
516.9	1433.1	8.27	76.8	1986.7	7.61	672.7	1317.4	9.69
468.6	1481.4	8.02	90.1	2000.0	7.63	653.2	1336.9	9.35
444.5	1505.5	7.96	103.4	2013.3	7.63	633.7	1356.4	8.91
396.2	1553.8	7.77	116.8	2026.7	7.73	614.2	1375.9	8.46
372.1	1577.9	7.79	130.1	2040.0	7.65	594.7	1395.4	8.41
323.8	1626.2	7.66	143.4	2053.3	7.63	575.2	1414.9	8.24
299.7	1650.3	7.65	156.8	2066.7	7.69	555.7	1434.4	8.07
251.4	1698.6	7.61	170.1	2080.0	7.72	536.3	1453.8	8.01
227.2	1722.8	7.59	183.4	2093.3	7.69	516.8	1473.3	7.86
179.0	1771.0	7.63	196.8	2106.7	7.68	497.3	1492.8	7.86
154.8	1795.2	7.54	210.1	2120.0	7.69	477.8	1512.3	7.79
106.6	1843.4	7.60	223.4	2133.3	7.70	458.3	1531.8	7.67
82.4	1867.6	7.63	236.8	2146.7	7.66	438.8	1551.3	7.66
34.1	1915.9	7.68	250.1	2160.0	7.69	419.3	1570.8	7.57
10.0	1940.0	7.94	263.4	2173.3	7.70	399.8	1590.3	7.58
26.6	1976.6	7.58	276.8	2186.7	7.67	380.4	1609.7	7.54
43.1	1993.1	7.62	290.1	2200.0	7.68	360.9	1629.2	7.47
76.2	2026.2	7.63	303.4	2213.3	7.74	341.4	1648.7	7.44
92.8	2042.8	7.72	316.8	2226.7	7.69	321.9	1668.2	7.46
125.9	2075.9	7.72	330.1	2240.0	7.68	302.4	1687.7	7.43
142.4	2092.4	7.68	343.4	2253.3	7.72	282.9	1707.2	7.45
175.5	2125.5	7.74	356.8	2266.7	7.74	263.4	1726.7	7.41
192.1	2142.1	7.76	370.1	2280.0	7.74	243.9	1746.2	7.38
225.2	2175.2	7.73	383.4	2293.3	7.81	224.5	1765.6	7.44
241.7	2191.7	7.76	396.8	2306.7	7.89	205.0	1785.1	7.38
274.8	2224.8	7.78	410.1	2320.0	7.92	185.5	1804.6	7.42
291.4	2241.4	7.77	423.4	2333.3	7.91	166.0	1824.1	7.49
324.5	2274.5	7.83	436.8	2346.7	8.06	146.5	1843.6	7.41
341.0	2291.0	7.87	450.1	2360.0	8.16	127.0	1863.1	7.53
374.1	2324.1	8.03	463.4	2373.3	8.32	107.5	1882.6	7.48
390.7	2340.7	8.07	476.8	2386.7	8.59	88.0	1902.1	7.41
423.8	2373.8	8.39	490.1	2400.0	8.80	68.6	1921.5	7.51
440.3	2390.3	8.65	503.4	2413.3	9.02	49.1	1941.0	7.45
473.4	2423.4	9.37	516.8	2426.7	9.36	29.6	1960.5	7.47
490.0	2440.0	9.97	530.1	2440.0	9.99	10.1	1980.0	7.71

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+14	+17	+20	+14	+17	+20
1200.1	33.61	33.65	33.69	41.99	42.10	40.83
1235.1	39.03	39.45	40.03	36.19	35.65	35.03
1270.1	40.16	40.39	40.59	34.43	34.24	33.98
1305.1	37.74	37.73	37.80	35.76	36.19	36.60
1340.1	35.53	34.73	34.50	37.12	37.33	37.46
1375.1	34.83	34.41	34.45	35.62	35.57	35.83
1405.1	35.28	35.05	35.18	34.45	34.49	34.82
1440.1	36.22	36.04	36.19	33.93	33.93	34.15
1470.1	36.24	36.13	36.19	33.33	33.32	33.40
1505.1	36.27	36.26	36.44	32.23	32.13	32.24
1535.1	36.71	36.89	37.15	31.34	31.21	31.24
1570.1	36.96	37.21	37.40	30.90	30.74	30.67
1600.1	37.49	37.95	38.29	30.32	30.16	30.13
1635.1	38.89	39.80	40.49	29.89	29.74	29.69
1665.1	39.69	41.32	42.52	29.79	29.66	29.65
1700.1	40.13	42.57	44.42	29.60	29.47	29.47
1730.1	38.58	39.92	40.78	29.77	29.64	29.60
1765.1	35.56	35.85	35.84	30.05	30.05	30.06
1795.1	33.98	34.03	33.86	30.30	30.36	30.36
1830.1	32.93	32.94	33.01	30.74	30.72	30.89
1860.1	32.23	32.46	32.40	31.13	31.30	31.30
1895.1	31.89	31.94	32.09	31.76	31.77	31.95
1925.1	31.30	31.33	31.46	32.64	32.59	32.75
1960.1	30.61	30.62	30.60	34.14	33.98	33.91
1990.1	30.73	30.73	30.79	37.06	36.52	36.33
2025.1	30.96	30.87	30.80	43.80	43.95	43.29
2055.1	31.34	31.21	31.05	42.45	46.43	49.83
2090.1	32.01	31.87	31.72	37.59	39.42	40.73
2120.1	31.71	31.52	31.32	35.36	36.67	37.60
2155.1	31.00	30.86	30.61	33.68	34.64	35.23
2185.1	30.86	30.70	30.45	32.69	33.36	33.72
2220.1	30.31	30.04	29.76	31.81	32.23	32.40
2250.1	29.84	29.37	29.26	31.23	31.31	31.51
2285.1	29.63	29.20	28.99	30.46	30.47	30.50
2315.1	29.23	28.63	28.49	29.95	29.82	29.91
2350.1	28.57	27.87	27.69	28.96	28.74	28.79
2380.1	28.29	27.76	27.42	28.20	27.96	27.92
2415.1	27.37	26.89	26.68	27.53	27.10	26.97
2445.1	26.26	25.91	25.61	27.05	26.48	26.06
2480.1	25.32	25.23	24.93	26.40	25.95	25.35

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
1462.1	1200.1	28.55	26.54	26.67
1497.1	1235.1	27.06	27.31	25.32
1532.1	1270.1	22.67	23.34	23.21
1567.1	1305.1	22.01	22.57	22.21
1602.1	1340.1	22.66	25.41	27.05
1637.1	1375.1	25.07	30.30	31.91
1667.1	1405.1	25.93	30.28	30.63
1702.1	1440.1	26.59	29.53	29.17
1732.1	1470.1	26.55	28.46	27.87
1767.1	1505.1	26.34	27.77	27.10
1797.1	1535.1	26.94	28.07	27.28
1832.1	1570.1	26.91	27.70	26.93
1862.1	1600.1	27.01	27.72	26.87
1897.1	1635.1	27.93	28.60	27.64
1927.1	1665.1	28.11	28.68	27.82
1962.1	1700.1	28.59	29.14	28.32
1992.1	1730.1	29.60	30.10	29.19
2027.1	1765.1	30.57	30.94	30.05
2057.1	1795.1	31.77	32.03	31.00
2092.1	1830.1	33.30	33.52	32.49
2122.1	1860.1	33.97	34.09	33.11
2157.1	1895.1	35.35	35.32	34.38
2187.1	1925.1	36.59	36.47	35.59
2222.1	1960.1	36.63	36.35	35.47
2252.1	1990.1	36.23	35.77	34.76
2287.1	2025.1	36.19	35.49	34.20
2317.1	2055.1	36.08	35.24	33.86
2352.1	2090.1	36.37	35.61	34.52
2382.1	2120.1	36.49	35.86	35.02
2417.1	2155.1	35.86	35.57	35.18
2447.1	2185.1	35.05	35.23	35.20
2482.1	2220.1	33.45	34.45	35.33
2512.1	2250.1	31.97	33.36	34.73
2547.1	2285.1	29.29	30.80	32.55
2577.1	2315.1	27.05	28.60	30.30
2612.1	2350.1	24.73	26.00	27.31
2642.1	2380.1	22.65	23.46	24.37
2677.1	2415.1	20.85	21.11	21.62
2707.1	2445.1	20.05	20.32	20.70
2742.1	2480.1	20.86	21.05	21.33

REV. X2

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Page 3 of 5



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Frequency Mixer

HJK-ED9193/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1719MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
1462.1	1200.1	2.07	1.95	1.90	1200.1	15.53	15.96	15.81	10.0	1.65	1.84	1.97
1497.1	1235.1	2.54	2.43	2.43	1235.1	17.05	17.57	17.39	49.8	1.66	1.86	2.00
1532.1	1270.1	2.84	2.70	2.64	1270.1	16.26	16.11	15.67	89.5	1.63	1.82	1.95
1567.1	1305.1	2.91	2.73	2.65	1305.1	14.50	13.92	13.19	129.3	1.64	1.82	1.95
1602.1	1340.1	2.75	2.51	2.40	1340.1	14.38	14.03	13.92	169.1	1.61	1.78	1.90
1637.1	1375.1	2.56	2.36	2.29	1375.1	14.15	13.81	13.49	208.8	1.63	1.79	1.90
1667.1	1405.1	2.52	2.33	2.26	1405.1	14.15	13.81	13.39	248.6	1.62	1.77	1.88
1702.1	1440.1	2.45	2.28	2.21	1440.1	13.81	13.60	13.49	288.4	1.64	1.76	1.86
1732.1	1470.1	2.41	2.27	2.20	1470.1	13.19	12.89	12.52	328.1	1.65	1.76	1.85
1767.1	1505.1	2.43	2.29	2.23	1505.1	12.71	12.44	12.09	367.9	1.64	1.72	1.79
1797.1	1535.1	2.38	2.25	2.20	1535.1	12.26	12.09	11.93	407.6	1.70	1.76	1.82
1832.1	1570.1	2.34	2.22	2.17	1570.1	11.46	11.09	10.69	447.4	1.67	1.71	1.76
1862.1	1600.1	2.34	2.21	2.15	1600.1	10.96	10.69	10.43	487.2	1.77	1.79	1.82
1897.1	1635.1	2.25	2.12	2.07	1635.1	10.25	10.07	9.85	526.9	1.75	1.76	1.79
1927.1	1665.1	2.20	2.08	2.02	1665.1	9.63	9.38	9.04	566.7	1.83	1.80	1.80
1962.1	1700.1	2.18	2.05	1.99	1700.1	9.28	9.13	8.95	606.5	1.88	1.85	1.85
1992.1	1730.1	2.13	1.99	1.92	1730.1	8.90	8.72	8.55	646.2	1.86	1.78	1.76
2027.1	1765.1	2.10	1.95	1.88	1765.1	8.55	8.39	8.12	686.0	1.99	1.89	1.86
2057.1	1795.1	2.07	1.92	1.85	1795.1	8.39	8.31	8.20	725.8	1.93	1.82	1.77
2092.1	1830.1	1.99	1.84	1.77	1830.1	8.08	7.97	7.76	765.5	2.07	1.94	1.87
2122.1	1860.1	1.97	1.81	1.74	1860.1	8.05	7.94	7.76	805.3	2.05	1.92	1.86
2157.1	1895.1	1.97	1.81	1.73	1895.1	8.01	7.97	7.90	845.1	2.12	1.96	1.88
2187.1	1925.1	1.94	1.77	1.69	1925.1	7.90	7.76	7.56	884.8	2.20	2.05	1.97
2222.1	1960.1	1.90	1.73	1.65	1960.1	8.01	7.94	7.83	924.6	2.15	1.99	1.90
2252.1	1990.1	1.88	1.72	1.64	1990.1	8.12	8.12	8.05	964.4	2.28	2.12	2.03
2287.1	2025.1	1.88	1.71	1.61	2025.1	8.31	8.20	7.94	1004.1	2.18	2.01	1.92
2317.1	2055.1	1.86	1.69	1.60	2055.1	8.77	8.77	8.68	1043.9	2.26	2.09	1.99
2352.1	2090.1	1.87	1.71	1.62	2090.1	9.04	8.99	8.86	1103.5	2.22	2.05	1.95
2382.1	2120.1	1.90	1.72	1.63	2120.1	8.99	8.86	8.51	1143.3	2.22	2.06	1.97
2417.1	2155.1	1.88	1.71	1.62	2155.1	9.28	9.28	9.23	1202.9	2.09	1.93	1.85
2447.1	2185.1	1.90	1.74	1.65	2185.1	9.18	9.08	8.90	1242.7	2.11	1.96	1.87
2482.1	2220.1	1.93	1.76	1.65	2220.1	8.95	8.81	8.47	1302.4	2.01	1.86	1.78
2512.1	2250.1	1.89	1.72	1.63	2250.1	8.95	8.95	8.90	1342.1	1.89	1.77	1.71
2547.1	2285.1	1.92	1.75	1.65	2285.1	8.27	8.16	7.94	1401.8	1.77	1.67	1.61
2577.1	2315.1	1.94	1.75	1.65	2315.1	7.76	7.66	7.44	1441.5	1.67	1.59	1.54
2612.1	2350.1	1.91	1.72	1.62	2350.1	7.17	7.20	7.20	1501.2	1.56	1.50	1.48
2642.1	2380.1	1.98	1.77	1.65	2380.1	6.35	6.26	6.13	1540.9	1.41	1.40	1.40
2677.1	2415.1	1.98	1.76	1.63	2415.1	5.46	5.41	5.34	1600.6	1.29	1.33	1.37
2707.1	2445.1	1.90	1.66	1.50	2445.1	4.68	4.64	4.63	1640.4	1.21	1.30	1.38
2742.1	2480.1	1.84	1.63	1.49	2480.1	3.83	3.76	3.69	1700.0	1.17	1.31	1.41

REV. X2

HJK-ED9193/1

101012

Page 4 of 5



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Harmonics Tables

RF HARMONICS ORDER	(-dBm)											
	(-dBc)											
0	-	-	7	18	22	33	29	48	34	39	47	70
1	-	21	+0	30	18	38	28	50	45	64	53	59
2	55	56	51	58	55	64	55	58	58	61	65	62
3	88	68	62	71	53	66	59	83	63	77	78	74
4	>90	>84	>84	>84	82	84	75	>84	81	>84	>84	>84
5	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
6	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
7	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
8	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
9	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
10	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
RF CAL 0 1 2 3 4 5 6 7 8 9 10												

LO HARMONICS ORDER

Test conditions: RF IN: 1950 MHz; 2.00 dBm.
LO IN: 1688 MHz; +17.00 dBm
IF OUT: 262 MHz; -5.73 dBm

RF HARMONICS ORDER	(-dBm)											
	(-dBc)											
0	-	-	16	28	36	35	37	45	44	55	57	69
1	-	21	+0	30	19	39	30	50	48	60	66	61
2	35	44	42	50	51	54	46	49	51	54	59	60
3	59	50	42	52	35	49	40	53	47	58	61	61
4	81	72	60	66	62	57	55	61	69	62	71	73
5	>90	80	72	67	63	67	56	59	57	71	61	72
6	>90	90	84	84	70	79	68	73	62	67	70	72
7	>90	>94	89	>94	>94	76	75	74	67	67	76	78
8	>90	91	>94	>94	>94	>94	79	84	79	85	70	91
9	>90	>94	>94	>94	>94	>94	>94	86	87	83	80	75
10	>90	>94	>94	>94	>94	>94	>94	>94	94	89	87	89
RF CAL 0 1 2 3 4 5 6 7 8 9 10												

LO HARMONICS ORDER

Test conditions: RF IN: 1950 MHz; 12.00 dBm.
LO IN: 1688 MHz; +17.00 dBm
IF OUT: 262 MHz; 4.21 dBm

- Notes: 1. All Harmonics are in (dBc) relative to IF OUTPUT.
2. + entry denotes harmonics are in (dBc) above IF OUTPUT.
3. RF Cal represent the Harmonics level of the RF input signal to the mixer.

REV. X2

HJK-ED9193/1

101012

Page 5 of 5



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