

Frequency Mixer

HJK-ED9154/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=270MHz (dB)		
		@LO (dBm)		
		+14	+17	+20
1750.1	1480.1	9.50	10.14	10.97
1775.1	1505.1	9.40	9.48	9.43
1800.1	1530.1	9.03	8.17	7.91
1825.1	1555.1	8.69	8.11	7.95
1850.1	1580.1	8.55	8.05	7.89
1875.1	1605.1	8.37	7.91	7.77
1900.1	1630.1	8.18	7.82	7.72
1925.1	1655.1	8.08	7.82	7.76
1950.1	1680.1	7.94	7.68	7.62
1975.1	1705.1	7.75	7.53	7.50
2000.1	1730.1	7.65	7.52	7.55
2025.1	1755.1	7.63	7.53	7.58
2050.1	1780.1	7.51	7.43	7.49
2075.1	1805.1	7.52	7.35	7.44
2100.1	1830.1	7.37	7.32	7.48
2125.1	1855.1	7.37	7.31	7.36
2150.1	1880.1	7.26	7.26	7.37
2175.1	1905.1	7.22	7.28	7.54
2200.1	1930.1	7.35	7.42	7.63
2225.1	1955.1	7.39	7.43	7.59
2250.1	1980.1	7.30	7.37	7.56
2275.1	2005.1	7.32	7.39	7.58
2300.1	2030.1	7.39	7.41	7.53
2325.1	2055.1	7.38	7.35	7.44
2350.1	2080.1	7.29	7.27	7.35
2375.1	2105.1	7.36	7.33	7.39
2400.1	2130.1	7.50	7.42	7.44
2425.1	2155.1	7.49	7.42	7.43
2450.1	2180.1	7.45	7.38	7.40
2475.1	2205.1	7.59	7.50	7.51
2500.1	2230.1	7.78	7.65	7.63
2525.1	2255.1	7.70	7.56	7.55
2550.1	2280.1	7.75	7.58	7.56
2575.1	2305.1	7.94	7.72	7.67
2600.1	2330.1	8.10	7.85	7.79
2625.1	2355.1	8.15	7.89	7.83
2650.1	2380.1	8.39	8.10	8.04
2675.1	2405.1	8.83	8.59	8.63
2705.1	2435.1	9.56	9.62	9.98
2730.1	2460.1	10.63	10.97	11.49

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+14	+17	+20
1750.1	1480.1	28.77	22.54	28.22
1775.1	1505.1	35.78	27.50	27.71
1800.1	1530.1	24.43	23.54	27.68
1825.1	1555.1	22.58	26.12	29.43
1850.1	1580.1	23.19	27.57	30.57
1875.1	1605.1	23.52	28.25	30.60
1900.1	1630.1	24.16	29.30	31.27
1925.1	1655.1	25.65	30.11	31.48
1950.1	1680.1	25.62	29.66	31.16
1975.1	1705.1	25.85	29.83	31.27
2000.1	1730.1	27.31	30.60	32.62
2025.1	1755.1	28.62	31.17	33.04
2050.1	1780.1	29.14	32.05	33.89
2075.1	1805.1	25.43	30.95	32.90
2100.1	1830.1	28.60	34.12	34.00
2125.1	1855.1	31.05	33.41	35.03
2150.1	1880.1	33.00	35.46	32.48
2175.1	1905.1	33.89	36.99	28.89
2200.1	1930.1	34.14	36.52	29.86
2225.1	1955.1	34.16	36.06	30.48
2250.1	1980.1	34.03	36.03	30.60
2275.1	2005.1	33.28	35.26	31.25
2300.1	2030.1	32.22	33.72	33.17
2325.1	2055.1	31.02	33.84	34.87
2350.1	2080.1	29.90	33.80	34.81
2375.1	2105.1	28.03	33.35	34.36
2400.1	2130.1	26.25	31.95	34.63
2425.1	2155.1	25.83	30.96	34.71
2450.1	2180.1	25.31	29.73	33.49
2475.1	2205.1	24.20	28.13	31.91
2500.1	2230.1	24.10	27.65	31.03
2525.1	2255.1	24.25	27.56	30.37
2550.1	2280.1	23.62	26.84	29.38
2575.1	2305.1	22.98	26.35	28.85
2600.1	2330.1	23.11	26.69	29.25
2625.1	2355.1	22.98	26.73	29.52
2650.1	2380.1	21.71	25.38	28.16
2675.1	2405.1	21.29	24.65	27.13
2705.1	2435.1	21.83	24.33	26.92
2730.1	2460.1	21.86	24.41	27.77

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+17dBm (dB)		
		@LO (dBm)		
		+14	+17	+20
1750.1	1480.1	0.50	-0.97	-0.23
1775.1	1505.1	0.54	0.00	0.32
1800.1	1530.1	0.70	0.76	0.61
1825.1	1555.1	0.78	0.67	0.44
1850.1	1580.1	0.74	0.60	0.35
1875.1	1605.1	0.75	0.58	0.33
1900.1	1630.1	0.77	0.54	0.27
1925.1	1655.1	0.68	0.45	0.22
1950.1	1680.1	0.65	0.44	0.24
1975.1	1705.1	0.65	0.41	0.24
2000.1	1730.1	0.59	0.34	0.19
2025.1	1755.1	0.50	0.28	0.17
2050.1	1780.1	0.46	0.25	0.16
2075.1	1805.1	0.63	0.34	0.22
2100.1	1830.1	0.42	0.23	0.19
2125.1	1855.1	0.32	0.21	0.15
2150.1	1880.1	0.25	0.16	0.09
2175.1	1905.1	0.22	0.12	0.02
2200.1	1930.1	0.20	0.11	0.04
2225.1	1955.1	0.19	0.11	0.07
2250.1	1980.1	0.19	0.11	0.07
2275.1	2005.1	0.18	0.11	0.08
2300.1	2030.1	0.19	0.13	0.09
2325.1	2055.1	0.20	0.14	0.11
2350.1	2080.1	0.20	0.14	0.11
2375.1	2105.1	0.23	0.14	0.12
2400.1	2130.1	0.29	0.15	0.12
2425.1	2155.1	0.32	0.15	0.12
2450.1	2180.1	0.38	0.18	0.12
2475.1	2205.1	0.48	0.23	0.12
2500.1	2230.1	0.50	0.26	0.13
2525.1	2255.1	0.53	0.28	0.13
2550.1	2280.1	0.65	0.36	0.18
2575.1	2305.1	0.76	0.45	0.24
2600.1	2330.1	0.78	0.50	0.27
2625.1	2355.1	0.84	0.59	0.35
2650.1	2380.1	1.02	0.80	0.55
2675.1	2405.1	1.14	0.95	0.68
2705.1	2435.1	1.14	0.93	0.64
2730.1	2460.1	1.04	0.78	0.50

REV. X2

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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)=2140MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2079.8MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2200.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
740.0	1400.0	10.66	10.1	2090.0	7.27	730.1	1470.0	10.30
710.8	1429.2	10.17	20.1	2100.0	7.22	710.1	1490.0	10.78
681.6	1458.4	9.69	30.1	2110.0	7.26	690.1	1510.0	9.75
652.4	1487.6	10.76	40.1	2120.0	7.27	670.1	1530.0	8.93
623.2	1516.8	9.14	50.1	2130.0	7.23	650.1	1550.0	8.59
594.0	1546.0	8.57	60.1	2140.0	7.25	630.1	1570.0	8.37
564.8	1575.2	8.27	70.1	2150.0	7.28	610.1	1590.0	8.24
535.6	1604.4	8.09	80.1	2160.0	7.32	590.1	1610.0	8.14
506.4	1633.6	7.88	90.1	2170.0	7.29	570.1	1630.0	8.02
477.2	1662.8	7.65	100.1	2180.0	7.26	550.1	1650.0	7.84
448.0	1692.0	7.55	110.1	2190.0	7.32	530.1	1670.0	7.70
418.8	1721.2	7.43	120.1	2200.0	7.40	510.1	1690.0	7.62
389.6	1750.4	7.40	130.1	2210.0	7.37	490.1	1710.0	7.56
360.4	1779.6	7.39	140.1	2220.0	7.32	470.1	1730.0	7.53
331.2	1808.8	7.39	150.1	2230.0	7.33	450.1	1750.0	7.44
302.0	1838.0	7.31	160.1	2240.0	7.42	430.1	1770.0	7.39
273.0	1867.2	7.26	170.1	2250.0	7.47	410.1	1790.0	7.38
243.6	1896.4	7.40	180.1	2260.0	7.48	390.1	1810.0	7.41
214.4	1925.6	7.40	190.1	2270.0	7.47	370.1	1830.0	7.37
185.2	1954.8	7.31	200.1	2280.0	7.52	350.1	1850.0	7.31
156.0	1984.0	7.35	210.1	2290.0	7.59	330.1	1870.0	7.38
126.8	2013.2	7.26	220.1	2300.0	7.63	310.1	1890.0	7.36
97.6	2042.4	7.28	230.1	2310.0	7.69	290.1	1910.0	7.41
68.4	2071.6	7.38	240.1	2320.0	7.70	270.1	1930.0	7.43
39.2	2100.8	7.33	250.1	2330.0	7.76	250.1	1950.0	7.38
10.0	2130.0	7.36	260.1	2340.0	7.82	230.1	1970.0	7.46
		7.32	270.1	2350.0	7.92	210.1	1990.0	7.36
		7.42	280.1	2360.0	7.99	190.1	2010.0	7.36
		7.42	290.1	2370.0	8.11	170.1	2030.0	7.35
		7.51	300.1	2380.0	8.18	160.1	2040.0	7.38
		7.53	310.1	2390.0	8.29	140.1	2060.0	7.23
		7.59	320.1	2400.0	8.43	130.1	2070.0	7.34
		7.71	330.1	2410.0	8.70	110.1	2090.0	7.29
		7.87	340.1	2420.0	8.85	100.1	2100.0	7.24
		7.94	350.1	2430.0	9.08	80.1	2120.0	7.30
		8.27			9.22	70.1	2130.0	7.29
		8.47			9.56	50.1	2150.0	7.29
		8.88			9.72	40.1	2160.0	7.29
		9.40			10.17	20.1	2180.0	7.31
		10.28			10.45	10.1	2190.0	7.32
		10.77						

Frequency Mixer

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+14	+17	+20	+14	+17	+20
1480.1	41.40	42.38	43.25	34.69	36.00	37.22
1505.1	41.65	41.83	41.60	34.37	35.54	35.89
1530.1	41.44	40.87	40.69	33.70	33.88	34.04
1555.1	40.97	40.48	40.22	33.18	33.26	33.33
1580.1	40.66	40.14	39.77	32.67	32.68	32.60
1605.1	40.45	39.94	39.43	32.05	32.03	31.96
1630.1	40.53	39.87	39.41	31.46	31.27	31.21
1655.1	40.43	39.61	38.87	30.81	30.76	30.67
1680.1	41.11	40.02	39.16	30.19	29.95	29.94
1705.1	42.98	42.18	40.68	29.47	29.31	29.14
1730.1	45.66	44.78	42.44	29.05	28.75	28.67
1755.1	52.82	49.24	44.24	28.73	28.43	28.33
1780.1	48.67	45.71	39.85	28.46	28.14	27.88
1805.1	40.27	41.52	40.37	28.55	28.26	27.87
1830.1	37.11	36.65	36.48	28.79	28.75	28.61
1855.1	33.72	33.30	33.03	29.19	29.39	29.67
1880.1	31.46	31.12	30.97	29.82	30.15	30.76
1905.1	30.29	29.92	29.96	31.06	31.50	32.63
1930.1	29.57	29.45	29.61	33.22	33.97	35.40
1955.1	29.54	29.61	29.92	36.89	37.89	39.71
1980.1	30.16	30.38	30.89	42.53	45.69	48.88
2005.1	30.60	30.80	31.15	40.05	41.61	41.32
2030.1	30.95	31.08	31.31	35.68	36.36	36.29
2055.1	31.33	31.41	31.54	33.30	33.68	33.63
2080.1	31.86	31.97	32.11	31.79	32.01	31.93
2105.1	31.97	32.00	32.12	30.78	30.83	30.69
2130.1	31.98	31.97	32.12	30.04	29.99	29.81
2155.1	32.01	31.98	32.05	29.28	29.13	28.84
2180.1	32.18	32.30	32.35	28.44	28.32	27.99
2205.1	31.84	31.91	31.98	27.94	27.77	27.52
2230.1	31.37	31.45	31.43	27.40	27.16	26.81
2255.1	31.10	31.01	31.16	26.70	26.30	26.12
2280.1	30.58	30.46	30.58	26.02	25.64	25.45
2305.1	30.02	29.84	29.84	25.41	25.08	24.84
2330.1	29.15	28.79	28.78	24.72	24.36	24.19
2355.1	28.64	28.28	28.19	23.80	23.44	23.25
2380.1	27.90	27.59	27.56	23.10	22.66	22.51
2405.1	27.16	26.89	26.94	22.40	22.00	21.82
2435.1	26.44	26.29	26.23	21.29	20.84	20.43
2460.1	26.66	26.66	26.54	20.33	19.96	19.46

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
1750.1	1480.1	21.73	23.31	25.48
1775.1	1505.1	22.00	23.79	25.50
1800.1	1530.1	22.88	25.91	28.02
1825.1	1555.1	23.86	26.43	28.09
1850.1	1580.1	24.56	26.94	28.38
1875.1	1605.1	25.18	27.44	28.95
1900.1	1630.1	25.72	27.80	28.75
1925.1	1655.1	26.77	28.91	29.77
1950.1	1680.1	27.45	29.75	30.33
1975.1	1705.1	27.66	29.86	30.18
2000.1	1730.1	28.76	30.94	31.25
2025.1	1755.1	29.57	31.08	31.51
2050.1	1780.1	30.41	31.51	32.23
2075.1	1805.1	30.43	32.01	31.00
2100.1	1830.1	33.81	35.68	36.47
2125.1	1855.1	35.70	37.10	39.50
2150.1	1880.1	37.81	39.29	40.88
2175.1	1905.1	39.19	40.77	39.65
2200.1	1930.1	40.20	41.58	41.10
2225.1	1955.1	40.51	41.68	41.62
2250.1	1980.1	40.07	40.62	39.08
2275.1	2005.1	40.58	40.81	39.56
2300.1	2030.1	40.94	41.16	41.41
2325.1	2055.1	40.57	40.84	41.08
2350.1	2080.1	39.70	39.82	39.81
2375.1	2105.1	38.47	38.85	38.51
2400.1	2130.1	36.64	37.48	37.09
2425.1	2155.1	35.06	36.04	35.57
2450.1	2180.1	33.77	34.99	34.19
2475.1	2205.1	32.00	33.52	32.66
2500.1	2230.1	30.62	32.18	31.49
2525.1	2255.1	29.16	30.74	30.17
2550.1	2280.1	27.35	28.62	28.31
2575.1	2305.1	25.35	26.27	25.99
2600.1	2330.1	23.61	24.31	24.09
2625.1	2355.1	21.93	22.36	22.07
2650.1	2380.1	20.77	20.73	20.39
2675.1	2405.1	20.32	20.11	19.90
2705.1	2435.1	20.62	20.76	20.84
2730.1	2460.1	21.96	22.63	23.13

Frequency Mixer

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Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1900MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
1750.1	1480.1	2.72	2.37	2.15	1480.1	21.20	18.70	16.11	10.0	1.56	1.77	1.96
1775.1	1505.1	2.68	2.32	2.15	1505.1	19.76	17.57	15.96	50.4	1.59	1.81	1.99
1800.1	1530.1	2.59	2.24	2.14	1530.1	19.11	18.30	17.22	90.9	1.57	1.77	1.95
1825.1	1555.1	2.45	2.17	2.09	1555.1	17.75	17.05	16.26	131.3	1.60	1.80	1.98
1850.1	1580.1	2.36	2.12	2.05	1580.1	16.26	15.39	14.50	171.7	1.59	1.78	1.95
1875.1	1605.1	2.31	2.09	2.02	1605.1	14.87	14.03	12.99	212.2	1.64	1.82	1.99
1900.1	1630.1	2.23	2.03	1.97	1630.1	13.70	12.99	12.26	252.6	1.63	1.81	1.96
1925.1	1655.1	2.12	1.97	1.93	1655.1	12.26	11.69	10.96	293.0	1.67	1.81	1.95
1950.1	1680.1	2.06	1.93	1.89	1680.1	10.89	10.25	9.48	333.4	1.69	1.82	1.95
1975.1	1705.1	2.02	1.88	1.85	1705.1	9.69	9.08	8.35	373.9	1.70	1.80	1.91
2000.1	1730.1	1.96	1.84	1.82	1730.1	8.55	8.05	7.47	414.3	1.76	1.84	1.92
2025.1	1755.1	1.89	1.80	1.78	1755.1	7.38	6.89	6.32	474.9	1.79	1.83	1.89
2050.1	1780.1	1.86	1.77	1.75	1780.1	6.37	5.93	5.34	515.4	1.83	1.85	1.89
2075.1	1805.1	1.94	1.79	1.74	1805.1	5.89	5.51	5.16	576.0	1.88	1.85	1.85
2100.1	1830.1	1.81	1.72	1.70	1830.1	4.91	4.64	4.47	616.5	1.93	1.89	1.89
2125.1	1855.1	1.77	1.70	1.68	1855.1	4.21	3.96	3.82	677.1	2.01	1.92	1.89
2150.1	1880.1	1.70	1.66	1.66	1880.1	3.69	3.49	3.37	717.5	2.02	1.92	1.87
2175.1	1905.1	1.66	1.63	1.64	1905.1	3.42	3.30	3.16	778.2	2.16	2.03	1.95
2200.1	1930.1	1.63	1.60	1.61	1930.1	3.34	3.29	3.25	818.6	2.08	1.95	1.88
2225.1	1955.1	1.61	1.58	1.59	1955.1	3.45	3.46	3.49	879.2	2.16	2.01	1.92
2250.1	1980.1	1.58	1.56	1.57	1980.1	3.74	3.82	3.93	919.7	2.17	2.01	1.90
2275.1	2005.1	1.56	1.53	1.55	2005.1	4.20	4.34	4.47	980.3	2.19	2.03	1.93
2300.1	2030.1	1.55	1.52	1.52	2030.1	4.70	4.88	4.98	1020.8	2.13	1.96	1.85
2325.1	2055.1	1.53	1.49	1.49	2055.1	5.34	5.58	5.74	1081.4	2.13	1.96	1.85
2350.1	2080.1	1.51	1.47	1.46	2080.1	6.05	6.30	6.46	1121.8	2.19	2.01	1.89
2375.1	2105.1	1.51	1.45	1.43	2105.1	6.63	6.83	6.83	1182.5	2.09	1.93	1.82
2400.1	2130.1	1.52	1.44	1.42	2130.1	7.22	7.44	7.41	1222.9	2.08	1.92	1.80
2425.1	2155.1	1.51	1.43	1.40	2155.1	7.94	8.23	8.31	1283.5	2.01	1.85	1.73
2450.1	2180.1	1.51	1.42	1.39	2180.1	8.55	8.77	8.72	1324.0	2.01	1.86	1.75
2475.1	2205.1	1.54	1.43	1.39	2205.1	8.86	8.90	8.55	1384.6	1.86	1.71	1.61
2500.1	2230.1	1.57	1.44	1.39	2230.1	9.28	9.38	9.13	1425.1	1.87	1.73	1.63
2525.1	2255.1	1.56	1.43	1.39	2255.1	9.63	9.79	9.69	1485.7	1.76	1.64	1.54
2550.1	2280.1	1.60	1.46	1.41	2280.1	9.53	9.58	9.28	1526.1	1.66	1.56	1.48
2575.1	2305.1	1.65	1.49	1.43	2305.1	9.23	9.13	8.60	1586.8	1.57	1.48	1.41
2600.1	2330.1	1.67	1.51	1.44	2330.1	8.99	8.99	8.64	1627.2	1.49	1.43	1.38
2625.1	2355.1	1.67	1.51	1.43	2355.1	8.51	8.51	8.27	1687.8	1.40	1.37	1.35
2650.1	2380.1	1.71	1.53	1.44	2380.1	7.70	7.56	7.17	1728.3	1.30	1.32	1.33
2675.1	2405.1	1.72	1.52	1.41	2405.1	6.81	6.63	6.24	1788.9	1.25	1.32	1.38
2705.1	2435.1	1.60	1.40	1.26	2435.1	5.75	5.61	5.38	1829.4	1.22	1.34	1.43
2730.1	2460.1	1.50	1.28	1.15	2460.1	4.80	4.62	4.37	1890.0	1.22	1.38	1.48

REV. X2

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Harmonics Tables

RF HARMONICS ORDER	(-dBm)	(-dBc)											
	0	-	-	5	14	30	27	32	32	28	38	42	58
	1	-	31	+0	39	19	46	31	55	54	54	51	69
	2	58	56	54	69	56	66	60	61	63	66	71	80
	3	>90	>81	75	>81	69	>81	76	>81	75	>81	>81	>81
	4	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
	5	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
	6	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
	7	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
	8	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
	9	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
	10	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
	RF CAL		0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 2140 MHz; 0.00 dBm.

LO IN: 1870 MHz; +17.00 dBm

IF OUT: 270 MHz; -8.61 dBm

RF HARMONICS ORDER	(-dBm)		(-dBc)										
	0	-	-	15	24	43	38	43	40	39	50	54	77
	1	-	31	+0	38	19	48	32	55	54	53	54	70
	2	38	46	44	56	46	54	50	51	55	55	61	70
	3	65	65	52	81	47	66	53	75	53	74	77	69
	4	>90	77	72	88	70	82	66	76	71	>91	73	79
	5	>90	87	89	81	75	89	71	77	72	80	75	84
	6	>90	>91	>91	>91	89	>91	87	>91	80	>91	84	>91
	7	>90	>91	>91	>91	>91	>91	91	>91	85	89	84	>91
	8	>90	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91
	9	>90	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91
	10	>90	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91
	RF CAL		0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 2140 MHz; 10.00 dBm.

LO IN: 1870 MHz; +17.00 dBm

IF OUT: 270 MHz; 1.27 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.