

Frequency Mixer

HJK-ED9174/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=479MHz (dB)		
		@LO (dBm)		
		+14	+17	+20
31.1	510.1	11.07	10.82	10.56
111.1	590.1	8.03	7.91	7.89
191.1	670.1	7.80	7.70	7.80
291.1	770.1	7.72	7.65	7.78
371.1	850.1	7.74	7.68	7.85
471.1	950.1	7.62	7.54	7.81
551.1	1030.1	7.64	7.52	7.82
651.1	1130.1	7.49	7.39	7.50
731.1	1210.1	7.31	7.20	7.36
831.1	1310.1	7.24	7.08	7.26
911.1	1390.1	7.33	7.18	7.28
1011.1	1490.1	7.37	7.19	7.21
1091.1	1570.1	7.49	7.28	7.26
1191.1	1670.1	7.78	7.58	7.60
1271.1	1750.1	8.01	7.87	7.95
1371.1	1850.1	8.09	7.97	8.08
1451.1	1930.1	8.08	7.96	8.08
1551.1	2030.1	8.11	7.98	8.09
1631.1	2110.1	8.14	8.02	8.12
1731.1	2210.1	8.23	8.14	8.24
1811.1	2290.1	8.23	8.14	8.25
1911.1	2390.1	8.24	8.14	8.26
1991.1	2470.1	8.16	8.05	8.16
2091.1	2570.1	8.13	8.00	8.10
2171.1	2650.1	8.05	7.88	7.95
2271.1	2750.1	8.09	7.86	7.91
2351.1	2830.1	8.11	7.82	7.82
2451.1	2930.1	8.28	7.94	7.90
2531.1	3010.1	8.46	8.10	8.01
2631.1	3110.1	8.73	8.30	8.21
2711.1	3190.1	9.00	8.53	8.42
2811.1	3290.1	9.26	8.77	8.65
2891.1	3370.1	9.52	8.99	8.84
2991.1	3470.1	9.74	9.16	9.05
3071.1	3550.1	9.99	9.40	9.27
3171.1	3650.1	10.15	9.61	9.48
3251.1	3730.1	10.36	9.82	9.69
3351.1	3830.1	10.67	10.12	9.96
3431.1	3910.1	10.81	10.24	10.08
3531.1	4010.1	10.94	10.31	10.06

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+14	+17	+20
31.1	510.1	20.12	21.46	23.96
111.1	590.1	22.27	23.87	25.50
191.1	670.1	21.88	23.77	25.68
291.1	770.1	21.83	23.68	25.88
371.1	850.1	22.49	24.30	26.76
471.1	950.1	23.16	24.96	28.28
551.1	1030.1	23.45	25.83	27.89
651.1	1130.1	23.47	26.23	28.05
731.1	1210.1	23.65	25.84	28.29
831.1	1310.1	23.45	25.26	26.72
911.1	1390.1	21.84	23.43	25.09
1011.1	1490.1	21.35	23.44	24.63
1091.1	1570.1	21.68	24.20	25.56
1191.1	1670.1	22.08	24.04	27.31
1271.1	1750.1	22.42	24.45	26.63
1371.1	1850.1	22.95	24.89	27.62
1451.1	1930.1	23.23	25.37	28.18
1551.1	2030.1	23.32	25.37	28.32
1631.1	2110.1	23.64	25.62	28.75
1731.1	2210.1	24.23	26.13	28.82
1811.1	2290.1	24.79	26.54	29.37
1911.1	2390.1	25.40	27.10	29.76
1991.1	2470.1	25.59	27.35	30.09
2091.1	2570.1	25.70	27.44	30.01
2171.1	2650.1	25.61	27.42	30.06
2271.1	2750.1	25.11	27.08	29.50
2351.1	2830.1	24.51	26.45	28.59
2451.1	2930.1	23.57	25.55	27.54
2531.1	3010.1	22.86	24.72	26.74
2631.1	3110.1	21.95	24.03	25.99
2711.1	3190.1	21.38	23.53	25.60
2811.1	3290.1	20.55	22.73	25.02
2891.1	3370.1	20.10	22.31	24.61
2991.1	3470.1	19.81	22.35	24.82
3071.1	3550.1	19.37	22.07	24.76
3171.1	3650.1	19.01	21.63	24.70
3251.1	3730.1	18.35	20.90	24.19
3351.1	3830.1	17.60	20.01	23.64
3431.1	3910.1	17.30	19.46	23.18
3531.1	4010.1	17.07	19.13	22.54

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+15dBm (dB)		
		@LO (dBm)		
		+14	+17	+20
31.1	510.1	-0.20	-0.17	0.11
111.1	590.1	0.67	0.39	0.41
191.1	670.1	0.64	0.30	0.51
291.1	770.1	0.63	0.29	1.21
371.1	850.1	0.61	0.23	0.72
471.1	950.1	0.62	0.29	0.78
551.1	1030.1	0.70	0.36	1.25
651.1	1130.1	0.81	0.36	1.23
731.1	1210.1	0.85	0.37	1.25
831.1	1310.1	1.02	0.48	0.44
911.1	1390.1	1.20	0.66	0.54
1011.1	1490.1	1.40	0.88	0.72
1091.1	1570.1	1.72	1.02	0.65
1191.1	1670.1	1.21	0.65	0.35
1271.1	1750.1	0.96	0.41	0.01
1371.1	1850.1	0.72	0.30	-0.16
1451.1	1930.1	0.64	0.25	-0.20
1551.1	2030.1	0.63	0.23	-0.19
1631.1	2110.1	0.59	0.19	-0.17
1731.1	2210.1	0.62	0.20	-0.15
1811.1	2290.1	0.56	0.15	-0.11
1911.1	2390.1	0.57	0.15	-0.05
1991.1	2470.1	0.57	0.15	0.00
2091.1	2570.1	0.62	0.18	0.04
2171.1	2650.1	0.65	0.20	0.08
2271.1	2750.1	0.74	0.23	0.09
2351.1	2830.1	0.82	0.27	0.10
2451.1	2930.1	0.99	0.37	0.18
2531.1	3010.1	1.14	0.49	0.25
2631.1	3110.1	1.43	0.60	0.36
2711.1	3190.1	1.63	0.72	0.43
2811.1	3290.1	1.92	0.88	0.52
2891.1	3370.1	2.24	1.03	0.58
2991.1	3470.1	2.52	1.17	0.60
3071.1	3550.1	2.88	1.45	0.65
3171.1	3650.1	3.09	1.70	0.72
3251.1	3730.1	3.38	1.92	0.79
3351.1	3830.1	3.84	2.32	0.86
3431.1	3910.1	4.02	2.46	0.92
3531.1	4010.1	3.76	2.47	0.96

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)=1870MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1130.9MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2610.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
1859.9	10.1	10.62	10.1	1141.0	7.15	2570.1	40.0	9.98
1754.8	115.2	8.26	70.4	1201.3	6.96	2509.6	100.5	9.45
1649.7	220.3	8.37	130.6	1261.5	6.98	2449.2	160.9	9.38
1544.6	325.4	8.45	190.9	1321.8	7.00	2388.7	221.4	9.21
1460.5	409.5	8.71	251.1	1382.0	7.08	2328.2	281.9	9.06
1355.4	514.6	9.35	311.4	1442.3	7.23	2267.7	342.4	8.99
1271.3	598.7	8.42	371.6	1502.5	7.28	2207.3	402.8	8.95
1166.2	703.8	8.33	431.9	1562.8	7.26	2146.8	463.3	8.96
1082.1	787.9	8.29	492.1	1623.0	7.34	2086.3	523.8	9.18
977.0	893.0	8.01	552.4	1683.3	7.52	2025.8	584.3	8.89
892.9	977.1	8.51	612.6	1743.5	7.73	1965.4	644.7	8.71
787.8	1082.2	8.31	672.9	1803.8	7.79	1904.9	705.2	8.56
703.7	1166.3	7.97	733.1	1864.0	7.86	1844.4	765.7	8.52
598.6	1271.4	7.84	793.4	1924.3	7.81	1784.0	826.1	8.57
514.5	1355.5	7.72	853.6	1984.5	7.79	1723.5	886.6	8.64
409.4	1460.6	7.73	913.9	2044.8	7.83	1663.0	947.1	8.71
325.3	1544.7	7.68	974.1	2105.0	7.83	1602.5	1007.6	8.77
220.2	1649.8	7.73	1034.4	2165.3	7.85	1542.1	1068.0	8.96
136.1	1733.9	7.88	1094.6	2225.5	8.00	1481.6	1128.5	8.89
31.0	1839.0	7.88	1154.9	2285.8	8.08	1421.1	1189.0	8.76
48.2	1918.2	7.93	1215.1	2346.0	8.19	1340.5	1269.6	8.54
143.6	2013.6	7.89	1275.4	2406.3	8.32	1280.0	1330.1	8.95
220.0	2090.0	7.98	1335.6	2466.5	8.31	1199.4	1410.7	8.75
315.5	2185.5	8.03	1395.9	2526.8	8.41	1138.9	1471.2	8.67
391.8	2261.8	8.02	1456.2	2587.1	8.47	1058.3	1551.8	8.68
487.3	2357.3	8.00	1516.4	2647.3	8.46	997.8	1612.3	8.61
563.7	2433.7	8.01	1576.7	2707.6	8.57	917.2	1692.9	8.52
659.1	2529.1	7.94	1636.9	2767.8	8.64	856.7	1753.4	8.43
735.5	2605.5	7.96	1697.2	2828.1	8.65	776.1	1834.0	8.29
831.0	2701.0	8.04	1757.4	2888.3	8.70	715.6	1894.5	8.17
907.3	2777.3	8.12	1817.7	2948.6	8.70	635.0	1975.1	8.19
1002.8	2872.8	8.30	1877.9	3008.8	8.72	574.5	2035.6	8.17
1079.2	2949.2	8.48	1938.2	3069.1	8.79	493.9	2116.2	8.13
1174.6	3044.6	8.77	1998.4	3129.3	8.87	433.4	2176.7	8.08
1251.0	3121.0	8.89	2058.7	3189.6	8.96	352.8	2257.3	8.11
1346.4	3216.4	9.03	2118.9	3249.8	9.04	292.3	2317.8	8.12
1422.8	3292.8	9.13	2199.3	3330.2	9.22	211.7	2398.4	8.08
1518.3	3388.3	9.25	2259.5	3390.4	9.31	151.2	2458.9	8.04
1594.6	3464.6	9.41	2339.8	3470.7	9.52	70.6	2539.5	8.08
1690.1	3560.1	9.57	2400.1	3531.0	9.71	10.1	2600.0	8.27

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
510.1	44.53	37.19	37.22	34.72	33.92	32.31
590.1	43.53	38.12	38.33	41.15	39.59	33.51
670.1	45.51	38.89	38.97	43.03	42.10	36.60
770.1	44.71	38.33	37.97	41.02	40.94	38.20
850.1	44.35	37.91	37.65	38.75	38.49	37.45
950.1	43.96	37.93	38.31	38.13	37.90	37.66
1030.1	43.22	38.54	40.21	37.04	37.26	37.57
1130.1	53.40	46.91	49.47	36.78	37.74	37.14
1210.1	51.81	43.97	52.33	36.15	36.77	35.97
1310.1	42.33	38.71	40.32	35.81	36.20	34.53
1390.1	41.43	37.16	39.45	35.66	36.07	34.75
1490.1	43.78	38.62	41.95	32.50	32.65	32.78
1570.1	43.20	38.44	42.19	30.76	30.67	30.82
1670.1	38.33	36.20	40.84	29.39	29.18	28.50
1750.1	36.13	35.22	39.66	32.77	32.67	31.27
1850.1	35.08	35.59	39.87	31.56	31.92	33.15
1930.1	36.34	37.30	41.63	30.79	31.03	32.77
2030.1	38.02	38.65	42.13	31.30	31.57	33.16
2110.1	38.71	38.60	41.55	31.66	31.98	33.62
2210.1	38.18	37.43	39.72	32.45	32.93	34.63
2290.1	37.37	36.18	38.15	33.39	33.76	35.82
2390.1	36.00	34.41	35.90	34.83	35.24	37.75
2470.1	34.66	33.15	34.19	35.92	36.64	39.28
2570.1	33.44	32.15	32.96	36.22	37.18	39.37
2650.1	33.25	32.02	32.89	35.68	36.42	37.42
2750.1	34.05	32.66	34.29	34.62	35.12	36.37
2830.1	34.72	33.10	35.12	34.03	34.94	36.19
2930.1	34.74	32.74	34.05	33.15	34.17	35.52
3010.1	34.16	32.24	32.77	32.26	33.26	34.40
3110.1	33.65	31.44	31.68	31.48	31.99	33.10
3190.1	32.56	30.42	30.52	30.87	31.25	32.12
3290.1	31.30	29.16	29.33	30.60	30.84	31.43
3370.1	30.86	28.66	29.05	30.68	30.90	31.31
3470.1	32.18	29.94	30.16	30.72	30.83	30.99
3550.1	33.96	31.81	31.37	30.23	30.37	30.45
3650.1	36.28	34.33	33.06	29.23	29.56	29.73
3730.1	37.96	36.06	33.97	28.64	28.90	29.02
3830.1	38.93	37.68	34.68	28.03	28.26	28.16
3910.1	38.59	38.21	35.11	27.53	27.76	27.61
4010.1	37.17	37.85	35.52	26.95	27.09	27.22

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
31.1	101.1	69.01	62.50	50.19
111.1	181.1	51.70	51.39	49.89
191.1	261.1	47.93	45.81	45.60
291.1	361.1	43.50	49.93	42.25
371.1	441.1	41.79	48.68	44.45
471.1	541.1	34.46	46.21	45.61
551.1	621.1	40.32	56.02	40.54
651.1	721.1	39.77	55.28	39.49
731.1	801.1	38.76	48.03	38.18
831.1	901.1	34.54	39.81	33.69
911.1	981.1	33.97	39.32	33.38
1011.1	1081.1	34.75	44.13	33.34
1091.1	1161.1	44.84	43.73	33.54
1191.1	1261.1	50.53	43.76	36.97
1271.1	1341.1	46.74	41.31	36.98
1371.1	1441.1	43.34	38.77	35.37
1451.1	1521.1	46.35	41.81	38.26
1551.1	1621.1	39.17	41.86	42.99
1631.1	1701.1	38.41	40.61	40.41
1731.1	1801.1	43.28	60.84	51.41
1811.1	1881.1	38.27	41.79	43.44
1911.1	1981.1	34.44	36.57	38.52
1991.1	2061.1	34.02	35.34	37.41
2091.1	2161.1	33.13	33.59	35.61
2171.1	2241.1	32.66	32.88	35.07
2271.1	2341.1	31.90	32.00	34.15
2351.1	2421.1	31.25	31.43	33.58
2451.1	2521.1	30.96	31.52	34.02
2531.1	2601.1	30.69	31.79	34.72
2631.1	2701.1	30.60	32.66	36.02
2711.1	2781.1	30.07	31.84	32.22
2811.1	2881.1	29.01	28.75	27.50
2891.1	2961.1	28.02	26.95	25.49
2991.1	3061.1	27.02	25.74	24.40
3071.1	3141.1	26.42	25.20	23.97
3171.1	3241.1	25.82	24.71	23.66
3251.1	3321.1	25.54	24.44	23.41
3351.1	3421.1	26.22	24.85	23.52
3431.1	3501.1	27.19	25.50	23.76
3531.1	3601.1	27.31	25.72	23.73

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=2600MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
31.1	101.1	9.08	7.80	5.30	510.1	8.27	4.84	2.96	10.0	1.71	1.87	2.03
111.1	181.1	1.74	1.74	1.73	590.1	8.99	5.27	3.35	70.0	1.68	1.85	2.02
191.1	261.1	1.27	1.36	1.46	670.1	10.50	5.89	3.69	130.0	1.64	1.81	1.98
291.1	361.1	1.20	1.32	1.42	770.1	11.46	6.46	4.01	190.0	1.68	1.84	2.01
371.1	441.1	1.20	1.31	1.43	850.1	11.85	6.81	4.26	250.0	1.64	1.78	1.95
471.1	541.1	1.29	1.46	1.54	950.1	11.93	7.11	4.47	310.0	1.62	1.74	1.90
551.1	621.1	1.68	1.71	1.67	1030.1	11.69	7.31	4.57	370.0	1.64	1.75	1.90
651.1	721.1	1.61	1.68	1.67	1130.1	11.31	7.47	4.62	430.0	1.61	1.69	1.82
731.1	801.1	1.55	1.61	1.60	1210.1	10.96	7.31	4.59	490.0	1.60	1.66	1.78
831.1	901.1	1.50	1.54	1.52	1310.1	9.96	6.86	4.43	550.0	1.64	1.67	1.76
911.1	981.1	1.49	1.50	1.46	1390.1	9.04	6.35	4.21	610.0	1.64	1.63	1.68
1011.1	1081.1	1.53	1.48	1.42	1490.1	8.43	6.03	4.06	670.0	1.65	1.62	1.64
1091.1	1161.1	1.57	1.54	1.46	1570.1	7.70	5.54	3.70	730.0	1.75	1.70	1.69
1191.1	1261.1	1.67	1.64	1.58	1670.1	6.61	4.92	3.40	790.0	1.85	1.77	1.73
1271.1	1341.1	1.72	1.68	1.63	1750.1	6.19	4.62	3.21	850.0	1.91	1.82	1.76
1371.1	1441.1	1.77	1.72	1.68	1850.1	5.85	4.35	3.04	910.0	2.01	1.90	1.82
1451.1	1521.1	1.82	1.76	1.72	1930.1	5.54	4.12	2.90	990.0	2.07	1.93	1.81
1551.1	1621.1	1.85	1.78	1.74	2030.1	5.02	3.76	2.69	1050.0	2.09	1.94	1.80
1631.1	1701.1	1.77	1.73	1.71	2110.1	4.59	3.48	2.52	1130.0	2.11	1.94	1.77
1731.1	1801.1	1.70	1.68	1.70	2210.1	4.07	3.13	2.30	1190.0	2.11	1.94	1.76
1811.1	1881.1	1.69	1.67	1.70	2290.1	3.73	2.90	2.16	1270.0	2.07	1.89	1.71
1911.1	1981.1	1.68	1.67	1.70	2390.1	3.35	2.65	2.01	1330.0	2.03	1.86	1.68
1991.1	2061.1	1.65	1.63	1.68	2470.1	3.12	2.51	1.95	1410.0	1.94	1.78	1.63
2091.1	2161.1	1.62	1.60	1.65	2570.1	2.91	2.39	1.91	1470.0	1.90	1.77	1.62
2171.1	2241.1	1.59	1.56	1.60	2650.1	2.83	2.38	1.95	1550.0	1.81	1.68	1.54
2271.1	2341.1	1.57	1.53	1.55	2750.1	2.84	2.45	2.07	1610.0	1.75	1.63	1.51
2351.1	2421.1	1.59	1.52	1.51	2830.1	2.90	2.55	2.20	1690.0	1.66	1.55	1.43
2451.1	2521.1	1.62	1.52	1.49	2930.1	3.02	2.71	2.38	1750.0	1.63	1.52	1.41
2531.1	2601.1	1.68	1.57	1.51	3010.1	3.13	2.84	2.54	1830.0	1.56	1.45	1.34
2631.1	2701.1	1.75	1.62	1.54	3110.1	3.25	3.00	2.72	1890.0	1.49	1.39	1.28
2711.1	2781.1	1.74	1.62	1.54	3190.1	3.32	3.10	2.84	1970.0	1.42	1.33	1.23
2811.1	2881.1	1.72	1.59	1.53	3290.1	3.37	3.18	2.95	2030.0	1.37	1.28	1.19
2891.1	2961.1	1.66	1.53	1.46	3370.1	3.34	3.18	2.95	2110.0	1.32	1.25	1.18
2991.1	3061.1	1.56	1.43	1.37	3470.1	3.29	3.16	2.96	2170.0	1.28	1.23	1.18
3071.1	3141.1	1.47	1.34	1.29	3550.1	3.18	3.06	2.85	2250.0	1.29	1.26	1.23
3171.1	3241.1	1.33	1.21	1.17	3650.1	3.09	2.98	2.81	2310.0	1.31	1.29	1.29
3251.1	3321.1	1.22	1.11	1.12	3730.1	2.99	2.89	2.73	2390.0	1.36	1.36	1.36
3351.1	3421.1	1.14	1.06	1.14	3830.1	2.87	2.78	2.64	2450.0	1.43	1.44	1.45
3431.1	3501.1	1.08	1.10	1.20	3910.1	2.78	2.71	2.59	2530.0	1.60	1.62	1.64
3531.1	3601.1	1.10	1.18	1.29	4010.1	2.68	2.60	2.50	2590.0	1.80	1.89	1.97

REV. X2

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Harmonics Tables

	(-dBm)		(-dBc)									
0	-	-	11	13	22	25	36	42	48	54	63	64
1	-	29	+0	40	17	33	38	47	44	58	51	68
2	59	57	53	55	50	64	59	51	63	71	74	81
3	>90	73	56	68	53	71	61	73	75	>81	75	>81
4	>90	>81	>81	>81	78	>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

RF HARMONICS ORDER

LO HARMONICS ORDER

Test conditions:

RF IN: 1870 MHz; 0.00 dBm.

LO IN: 2349 MHz; +17.00 dBm

IF OUT: 479 MHz; -8.63 dBm

	(-dBm)		(-dBc)									
0	-	-	20	23	34	32	51	45	61	61	78	60
1	-	29	+0	41	18	34	40	53	50	62	61	73
2	39	45	42	46	40	62	51	44	58	66	69	78
3	65	58	38	52	35	54	42	59	55	81	58	86
4	88	68	60	62	52	71	54	70	64	66	69	89
5	>90	76	68	77	61	68	54	68	67	68	74	73
6	>90	85	87	89	73	76	65	72	65	78	78	77
7	>90	>91	>91	89	82	84	73	78	75	80	83	79
8	>90	>91	>91	>91	>91	>91	82	82	76	84	82	89
9	>90	>91	>91	>91	>91	>91	91	>91	85	87	89	>91
10	>90	>91	>91	>91	>91	>91	>91	>91	>91	>91	89	>91
RF CAL		0	1	2	3	4	5	6	7	8	9	10

RF HARMONICS ORDER

LO HARMONICS ORDER

Test conditions:

RF IN: 1870 MHz; 10.00 dBm.

LO IN: 2349 MHz; +17.00 dBm

IF OUT: 479 MHz; 1.29 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.