

Frequency Mixer

HJK-ED9485/2

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=166MHz (dB)		
		@LO (dBm)		
		+4	+7	+10
1350.1	1516.1	8.48	9.40	10.28
1369.3	1535.3	8.14	7.46	7.25
1388.6	1554.6	7.87	7.21	6.84
1407.8	1573.8	7.69	7.13	6.80
1427.0	1593.0	7.61	7.11	6.80
1446.3	1612.3	7.61	7.12	6.82
1465.5	1631.5	7.58	7.13	6.87
1484.7	1650.7	7.58	7.17	6.94
1503.9	1669.9	7.65	7.29	7.09
1523.2	1689.2	7.74	7.38	7.22
1542.4	1708.4	7.79	7.43	7.27
1561.6	1727.6	7.79	7.39	7.22
1580.9	1746.9	7.83	7.43	7.26
1600.1	1766.1	7.84	7.42	7.24
1619.3	1785.3	7.94	7.48	7.28
1638.6	1804.6	8.08	7.53	7.28
1657.8	1823.8	8.33	7.66	7.34
1677.0	1843.0	8.54	7.77	7.38
1696.3	1862.3	8.70	7.85	7.43
1715.5	1881.5	8.96	8.00	7.49
1734.7	1900.7	9.32	8.22	7.63
1753.9	1919.9	9.71	8.51	7.77
1773.2	1939.2	9.94	8.63	7.85
1792.4	1958.4	9.96	8.68	7.90
1811.6	1977.6	10.27	8.89	8.01
1830.9	1996.9	10.82	9.25	8.19
1850.1	2016.1	11.17	9.44	8.38
1869.3	2035.3	11.33	9.56	8.44
1888.6	2054.6	11.43	9.64	8.51
1907.8	2073.8	11.74	9.89	8.65
1927.0	2093.0	12.27	10.27	8.91
1946.3	2112.3	12.71	10.62	9.12
1965.5	2131.5	12.87	10.75	9.17
1984.7	2150.7	12.88	10.78	9.20
2003.9	2169.9	13.11	10.96	9.31
2023.2	2189.2	13.51	11.40	9.64
2042.4	2208.4	14.04	11.75	9.87
2061.6	2227.6	14.07	11.87	9.96
2080.9	2246.9	14.00	11.82	9.94
2100.1	2266.1	14.18	12.02	10.08

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+4	+7	+10
1350.1	1516.1	20.53	8.99	16.62
1369.3	1535.3	30.88	25.13	23.77
1388.6	1554.6	27.30	28.16	29.84
1407.8	1573.8	27.38	28.86	30.93
1427.0	1593.0	25.72	28.13	30.98
1446.3	1612.3	25.09	27.38	30.46
1465.5	1631.5	23.09	25.32	28.48
1484.7	1650.7	22.19	24.30	27.20
1503.9	1669.9	21.59	24.68	28.95
1523.2	1689.2	24.03	27.82	29.22
1542.4	1708.4	24.15	25.46	26.85
1561.6	1727.6	22.53	24.38	26.71
1580.9	1746.9	21.61	24.15	26.96
1600.1	1766.1	21.57	24.50	27.85
1619.3	1785.3	20.55	24.20	27.42
1638.6	1804.6	18.90	22.45	26.19
1657.8	1823.8	16.74	20.19	24.25
1677.0	1843.0	15.16	18.26	22.55
1696.3	1862.3	14.44	17.52	21.73
1715.5	1881.5	14.35	17.10	21.26
1734.7	1900.7	14.14	16.47	20.38
1753.9	1919.9	14.18	15.74	19.49
1773.2	1939.2	14.02	15.26	18.63
1792.4	1958.4	14.15	15.30	18.48
1811.6	1977.6	14.08	15.11	17.91
1830.9	1996.9	13.68	14.69	17.16
1850.1	2016.1	13.30	14.78	16.38
1869.3	2035.3	13.10	14.72	16.24
1888.6	2054.6	13.02	14.99	16.35
1907.8	2073.8	12.46	14.59	16.08
1927.0	2093.0	11.65	14.47	15.68
1946.3	2112.3	10.98	13.90	15.19
1965.5	2131.5	10.67	13.72	15.27
1984.7	2150.7	10.63	13.65	15.22
2003.9	2169.9	10.43	13.46	15.28
2023.2	2189.2	9.87	12.68	14.92
2042.4	2208.4	9.57	12.21	14.65
2061.6	2227.6	9.37	11.86	14.59
2080.9	2246.9	9.51	12.04	14.64
2100.1	2266.1	9.24	11.75	14.62

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+10dBm (dB)		
		@LO (dBm)		
		+4	+7	+10
1350.1	1516.1	0.23	-1.50	-2.03
1369.3	1535.3	0.35	0.19	-0.08
1388.6	1554.6	0.38	0.22	0.13
1407.8	1573.8	0.37	0.22	0.12
1427.0	1593.0	0.35	0.22	0.11
1446.3	1612.3	0.30	0.16	0.10
1465.5	1631.5	0.24	0.12	0.09
1484.7	1650.7	0.27	0.14	0.09
1503.9	1669.9	0.31	0.17	0.12
1523.2	1689.2	0.34	0.21	0.14
1542.4	1708.4	0.35	0.21	0.13
1561.6	1727.6	0.38	0.24	0.13
1580.9	1746.9	0.46	0.28	0.15
1600.1	1766.1	0.51	0.32	0.16
1619.3	1785.3	0.60	0.38	0.19
1638.6	1804.6	0.78	0.52	0.26
1657.8	1823.8	1.09	0.76	0.41
1677.0	1843.0	1.31	1.02	0.56
1696.3	1862.3	1.34	1.12	0.63
1715.5	1881.5	1.17	1.08	0.66
1734.7	1900.7	1.03	1.01	0.70
1753.9	1919.9	0.89	0.90	0.71
1773.2	1939.2	0.88	0.87	0.70
1792.4	1958.4	0.86	0.81	0.67
1811.6	1977.6	0.80	0.75	0.65
1830.9	1996.9	0.81	0.78	0.69
1850.1	2016.1	0.85	0.79	0.73
1869.3	2035.3	0.93	0.90	0.79
1888.6	2054.6	1.01	0.92	0.80
1907.8	2073.8	0.95	0.90	0.80
1927.0	2093.0	0.91	0.84	0.80
1946.3	2112.3	0.97	0.91	0.86
1965.5	2131.5	0.98	0.91	0.83
1984.7	2150.7	0.96	0.90	0.84
2003.9	2169.9	0.81	0.80	0.78
2023.2	2189.2	0.77	0.76	0.77
2042.4	2208.4	0.82	0.81	0.80
2061.6	2227.6	0.84	0.82	0.82
2080.9	2246.9	0.78	0.76	0.77
2100.1	2266.1	0.62	0.63	0.69

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1580.5MHz (dB)
		@LO (dBm)
		+7
580.4	1000.1	11.90
560.0	1020.5	11.86
539.7	1040.8	11.61
519.3	1061.2	11.39
478.5	1102.0	10.97
458.2	1122.3	10.79
417.4	1163.1	10.52
397.1	1183.4	10.17
356.3	1224.2	9.92
335.9	1244.6	9.77
295.2	1285.3	9.16
274.8	1305.7	9.05
234.1	1346.4	8.73
213.7	1366.8	8.38
173.0	1407.5	8.04
152.6	1427.9	8.03
111.9	1468.6	7.56
91.5	1489.0	8.78
50.7	1529.8	8.52
30.4	1550.1	7.26
10.0	1590.5	7.59
30.0	1610.5	7.12
70.0	1650.5	7.02
89.9	1670.4	7.19
129.9	1710.4	7.38
149.9	1730.4	7.41
189.9	1770.4	7.42
209.9	1790.4	7.44
249.8	1830.3	7.80
269.8	1850.3	8.01
309.8	1890.3	8.38
329.8	1910.3	8.72
369.7	1950.2	9.17
389.7	1970.2	9.42
429.7	2010.2	10.16
449.7	2030.2	10.45
489.7	2070.2	10.88
509.6	2090.1	11.44
549.6	2130.1	12.07
569.6	2150.1	12.20

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1440MHz (dB)
		@LO (dBm)
		+7
10.1	1450.1	8.19
26.8	1466.8	7.78
43.4	1483.4	7.87
60.1	1500.1	9.67
76.8	1516.8	9.36
93.4	1533.4	7.49
110.1	1550.1	7.15
126.8	1566.8	7.11
143.4	1583.4	7.09
160.1	1600.1	7.04
176.8	1616.8	7.01
193.4	1633.4	7.08
210.1	1650.1	7.16
226.8	1666.8	7.43
243.4	1683.4	7.48
260.1	1700.1	7.50
276.8	1716.8	7.51
293.4	1733.4	7.49
310.1	1750.1	7.57
326.8	1766.8	7.62
343.4	1783.4	7.66
360.1	1800.1	7.81
376.8	1816.8	7.98
393.4	1833.4	8.15
410.1	1850.1	8.33
426.8	1866.8	8.48
443.4	1883.4	8.66
460.1	1900.1	8.89
476.8	1916.8	9.27
493.4	1933.4	9.53
510.1	1950.1	9.79
526.8	1966.8	9.82
543.4	1983.4	10.03
560.1	2000.1	10.43
576.8	2016.8	10.77
593.4	2033.4	10.93
610.1	2050.1	11.15
626.8	2066.8	11.24
643.4	2083.4	11.49
660.1	2100.1	11.94

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1721.1MHz (dB)
		@LO (dBm)
		+7
721.0	1000.1	12.53
708.9	1012.2	12.37
696.9	1024.2	12.29
684.8	1036.3	12.31
672.8	1048.3	12.13
660.7	1060.4	11.98
648.7	1072.4	11.87
636.6	1084.5	11.84
624.6	1096.5	11.82
612.5	1108.6	11.74
600.5	1120.6	11.45
588.4	1132.7	11.48
576.4	1144.7	11.39
564.3	1156.8	11.14
552.3	1168.8	10.98
540.2	1180.9	10.89
528.2	1192.9	10.65
516.1	1205.0	10.59
504.1	1217.0	10.55
492.0	1229.1	10.42
480.0	1241.1	10.32
467.9	1253.2	10.12
455.9	1265.2	9.85
443.8	1277.3	9.76
431.8	1289.3	9.65
419.7	1301.4	9.51
407.7	1313.4	9.48
395.6	1325.5	9.35
383.6	1337.5	9.18
371.5	1349.6	9.03
359.5	1361.6	8.85
347.4	1373.7	8.69
335.4	1385.7	8.62
323.3	1397.8	8.51
311.3	1409.8	8.43
299.2	1421.9	8.37
287.2	1433.9	8.25
275.1	1446.0	8.11
263.1	1458.0	7.99
251.0	1470.1	7.85

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Frequency Mixer

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+4	+7	+10	+4	+7	+10
1516.1	30.77	31.52	32.56	44.87	54.91	48.72
1535.3	30.70	31.90	33.10	48.48	57.44	55.71
1554.6	30.27	31.17	32.09	57.17	49.62	46.62
1573.8	30.15	31.17	31.98	46.20	42.70	40.66
1593.0	30.12	31.06	31.76	40.00	38.03	36.72
1612.3	30.46	31.36	31.86	35.75	34.35	33.37
1631.5	31.02	31.72	32.15	33.04	31.88	31.34
1650.7	31.66	32.29	32.63	30.45	29.23	28.63
1669.9	32.73	33.13	32.91	28.80	27.58	26.89
1689.2	32.86	32.64	32.03	27.26	25.95	25.25
1708.4	31.98	31.35	30.80	26.66	25.46	24.93
1727.6	30.84	30.41	30.10	26.93	25.93	25.49
1746.9	30.62	30.32	30.21	28.25	27.28	26.89
1766.1	30.58	30.49	30.48	29.82	28.98	28.52
1785.3	31.17	31.30	31.44	31.52	30.69	30.22
1804.6	31.43	31.64	31.84	33.74	32.71	32.12
1823.8	32.10	32.37	32.75	36.25	34.85	34.16
1843.0	32.53	32.90	33.10	39.19	37.46	36.23
1862.3	33.31	33.78	34.28	42.46	40.06	38.55
1881.5	33.77	34.44	34.80	46.18	43.32	41.30
1900.7	34.30	34.94	35.48	52.77	47.62	44.98
1919.9	34.43	35.13	35.58	53.65	51.88	48.61
1939.2	34.94	35.76	36.33	49.63	51.32	49.76
1958.4	35.21	36.13	36.81	46.80	48.57	48.51
1977.6	35.55	36.53	37.34	44.66	46.18	46.52
1996.9	35.68	36.67	37.51	43.00	44.48	44.90
2016.1	35.86	36.71	37.64	41.76	43.06	43.81
2035.3	36.11	37.03	38.04	41.05	42.18	42.92
2054.6	36.42	37.36	38.48	40.45	41.51	42.29
2073.8	36.59	37.51	38.62	40.01	41.03	41.79
2093.0	36.77	37.63	38.70	39.48	40.54	41.37
2112.3	36.89	37.64	38.64	39.06	40.00	40.93
2131.5	36.96	37.68	38.82	38.76	39.67	40.69
2150.7	37.11	37.92	38.97	38.42	39.37	40.25
2169.9	37.26	38.01	38.97	38.11	39.01	39.92
2189.2	37.08	37.88	38.79	37.57	38.46	39.36
2208.4	37.10	37.79	38.61	37.36	38.06	38.93
2227.6	36.96	37.80	38.56	36.97	37.79	38.57
2246.9	37.09	37.84	38.66	36.87	37.61	38.42
2266.1	37.03	37.81	38.62	36.55	37.32	38.06

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+4	+7	+10
1350.1	1516.1	30.93	31.41	27.83
1369.3	1535.3	32.32	38.54	44.74
1388.6	1554.6	33.17	39.72	44.19
1407.8	1573.8	33.25	39.37	45.17
1427.0	1593.0	32.54	37.75	43.26
1446.3	1612.3	31.72	36.22	41.61
1465.5	1631.5	30.98	35.04	39.66
1484.7	1650.7	29.65	33.34	37.85
1503.9	1669.9	28.39	31.55	35.38
1523.2	1689.2	27.72	31.08	34.89
1542.4	1708.4	26.28	28.75	31.14
1561.6	1727.6	25.77	28.09	30.35
1580.9	1746.9	25.20	27.23	29.24
1600.1	1766.1	25.35	27.44	29.47
1619.3	1785.3	25.35	27.49	29.40
1638.6	1804.6	25.31	27.52	29.46
1657.8	1823.8	25.05	27.48	29.58
1677.0	1843.0	24.84	27.37	29.94
1696.3	1862.3	24.86	27.49	30.22
1715.5	1881.5	24.61	27.27	30.31
1734.7	1900.7	24.21	26.74	29.76
1753.9	1919.9	23.77	25.99	29.08
1773.2	1939.2	23.61	25.84	28.79
1792.4	1958.4	23.78	25.92	28.96
1811.6	1977.6	23.62	25.73	28.71
1830.9	1996.9	23.44	25.23	28.24
1850.1	2016.1	23.36	25.09	27.64
1869.3	2035.3	23.38	24.96	27.53
1888.6	2054.6	23.36	24.93	27.50
1907.8	2073.8	23.36	24.84	27.45
1927.0	2093.0	23.36	24.58	26.96
1946.3	2112.3	23.41	24.29	26.50
1965.5	2131.5	23.48	24.23	26.44
1984.7	2150.7	23.61	24.39	26.63
2003.9	2169.9	23.66	24.40	26.56
2023.2	2189.2	23.82	24.29	26.14
2042.4	2208.4	23.98	24.27	25.83
2061.6	2227.6	24.13	24.38	25.86
2080.9	2246.9	24.33	24.61	26.20
2100.1	2266.1	24.46	24.74	26.25

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=1721MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+4	+7	+10		+4	+7	+10		+4	+7	+10
1350.1	1516.1	2.04	1.75	1.43	1516.1	8.99	6.58	5.72	10.0	1.21	1.23	1.35
1369.3	1535.3	1.91	1.61	1.39	1535.3	7.63	6.94	6.21	29.8	1.09	1.11	1.28
1388.6	1554.6	1.80	1.54	1.39	1554.6	6.13	5.68	5.33	49.6	1.09	1.12	1.29
1407.8	1573.8	1.73	1.50	1.36	1573.8	4.79	4.41	4.10	69.3	1.13	1.11	1.27
1427.0	1593.0	1.67	1.45	1.32	1593.0	3.71	3.38	3.14	89.1	1.18	1.17	1.30
1446.3	1612.3	1.60	1.41	1.30	1612.3	2.84	2.59	2.39	108.9	1.23	1.19	1.29
1465.5	1631.5	1.55	1.37	1.28	1631.5	2.20	2.01	1.87	128.7	1.27	1.25	1.35
1484.7	1650.7	1.53	1.35	1.26	1650.7	1.80	1.66	1.57	148.4	1.34	1.29	1.36
1503.9	1669.9	1.48	1.29	1.21	1669.9	1.60	1.52	1.48	168.2	1.38	1.33	1.39
1523.2	1689.2	1.39	1.21	1.17	1689.2	1.63	1.62	1.62	188.0	1.46	1.40	1.43
1542.4	1708.4	1.31	1.16	1.18	1708.4	1.87	1.91	1.96	207.8	1.47	1.41	1.45
1561.6	1727.6	1.27	1.14	1.19	1727.6	2.33	2.41	2.50	227.6	1.55	1.47	1.49
1580.9	1746.9	1.28	1.13	1.19	1746.9	2.98	3.11	3.24	247.3	1.59	1.50	1.51
1600.1	1766.1	1.28	1.13	1.18	1766.1	3.85	4.03	4.21	267.1	1.69	1.59	1.59
1619.3	1785.3	1.29	1.12	1.17	1785.3	4.87	5.10	5.33	286.9	1.72	1.60	1.59
1638.6	1804.6	1.33	1.13	1.16	1804.6	5.99	6.26	6.51	306.7	1.77	1.66	1.64
1657.8	1823.8	1.40	1.15	1.14	1823.8	7.20	7.50	7.80	326.4	1.82	1.68	1.64
1677.0	1843.0	1.47	1.19	1.11	1843.0	8.55	8.90	9.18	346.2	1.91	1.77	1.73
1696.3	1862.3	1.51	1.21	1.10	1862.3	10.02	10.37	10.69	366.0	1.97	1.81	1.75
1715.5	1881.5	1.55	1.24	1.10	1881.5	11.38	11.69	12.01	385.8	2.01	1.85	1.79
1734.7	1900.7	1.64	1.29	1.10	1900.7	12.61	12.89	13.19	405.6	2.06	1.88	1.79
1753.9	1919.9	1.74	1.37	1.12	1919.9	13.81	14.15	14.50	425.3	2.12	1.93	1.83
1773.2	1939.2	1.79	1.41	1.14	1939.2	15.26	15.67	15.96	445.1	2.21	2.01	1.90
1792.4	1958.4	1.80	1.41	1.14	1958.4	16.72	17.22	17.57	464.9	2.23	2.02	1.91
1811.6	1977.6	1.83	1.44	1.16	1977.6	18.11	18.50	18.70	484.7	2.31	2.08	1.95
1830.9	1996.9	1.92	1.52	1.21	1996.9	18.90	19.11	19.32	504.4	2.33	2.09	1.96
1850.1	2016.1	2.01	1.58	1.27	2016.1	19.76	19.98	20.22	524.2	2.42	2.18	2.03
1869.3	2035.3	2.04	1.60	1.28	2035.3	20.95	21.20	21.46	544.0	2.44	2.19	2.04
1888.6	2054.6	2.03	1.60	1.29	2054.6	22.58	22.87	23.18	583.6	2.53	2.26	2.08
1907.8	2073.8	2.04	1.62	1.30	2073.8	23.49	23.81	23.81	603.3	2.59	2.32	2.15
1927.0	2093.0	2.13	1.69	1.36	2093.0	24.14	24.14	24.14	642.9	2.67	2.39	2.20
1946.3	2112.3	2.22	1.78	1.43	2112.3	24.83	24.48	24.48	662.7	2.68	2.40	2.20
1965.5	2131.5	2.24	1.81	1.43	2131.5	25.56	25.56	25.19	702.2	2.78	2.47	2.27
1984.7	2150.7	2.20	1.78	1.42	2150.7	26.74	26.74	26.74	722.0	2.77	2.46	2.26
2003.9	2169.9	2.20	1.79	1.44	2169.9	27.59	27.59	27.59	761.6	2.77	2.47	2.26
2023.2	2189.2	2.28	1.89	1.52	2189.2	28.03	27.59	27.59	781.3	2.84	2.53	2.32
2042.4	2208.4	2.37	1.97	1.59	2208.4	28.03	28.03	27.59	820.9	2.87	2.56	2.35
2061.6	2227.6	2.36	1.99	1.60	2227.6	28.49	28.49	28.03	840.7	2.81	2.51	2.29
2080.9	2246.9	2.31	1.95	1.58	2246.9	29.46	29.46	28.96	880.2	2.85	2.54	2.32
2100.1	2266.1	2.31	1.96	1.60	2266.1	29.96	29.96	29.46	900.0	2.86	2.56	2.34

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	8	18	25	32	32	46	28	41	51	58
1	-	20	+0	25	22	30	32	40	52	54	41	67
2	66	53	56	56	61	58	62	60	57	65	59	72
3	>90	75	61	72	54	69	63	69	72	77	77	>78
4	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
5	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
6	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
7	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
8	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
9	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
10	>90	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78	>78
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1580 MHz; -5.00 dBm.
LO IN: 1746 MHz; +7.00 dBm
IF OUT: 166 MHz; -12.46 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	18	28	35	42	41	58	41	52	57	79
1	-	20	+0	26	23	31	33	41	56	52	43	66
2	46	43	49	47	52	50	55	53	52	58	54	67
3	89	56	40	48	36	47	44	49	55	61	63	64
4	>90	69	77	70	63	72	64	68	73	70	64	75
5	>90	77	72	72	64	78	57	73	62	68	75	73
6	>90	>87	>87	86	>87	>87	78	85	79	87	>87	>87
7	>90	>87	>87	>87	87	84	84	76	75	>87	78	>87
8	>90	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
9	>90	>87	>87	>87	>87	>87	>87	>87	>87	85	>87	>87
10	>90	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87	>87
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1580 MHz; 5.00 dBm.
LO IN: 1746 MHz; +7.00 dBm
IF OUT: 166 MHz; -2.57 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.