

Frequency Mixer

LAVI-ED12813/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=100MHz (dB)		
		@LO (dBm)		
		+17	+20	+23
580.1	680.1	10.15	9.82	9.61
640.6	740.6	9.87	9.53	9.32
701.1	801.1	8.71	8.28	8.13
761.6	861.6	8.14	7.71	7.45
822.1	922.1	7.89	7.51	7.27
882.6	982.6	7.79	7.44	7.21
943.1	1043.1	7.77	7.44	7.19
1003.6	1103.6	7.79	7.48	7.32
1064.1	1164.1	7.77	7.45	7.22
1124.6	1224.6	7.77	7.46	7.25
1185.1	1285.1	7.76	7.45	7.25
1245.6	1345.6	7.77	7.48	7.28
1306.1	1406.1	8.52	8.30	8.17
1366.5	1466.5	8.16	7.80	7.55
1427.0	1527.0	7.70	7.33	7.16
1487.5	1587.5	7.43	7.12	6.91
1548.0	1648.0	7.39	7.10	6.90
1608.5	1708.5	7.47	7.87	8.09
1669.0	1769.0	7.22	6.96	6.87
1729.5	1829.5	7.19	6.92	6.82
1790.0	1890.0	7.22	6.96	6.87
1850.5	1950.5	7.18	6.97	6.89
1911.0	2011.0	7.17	6.95	6.87
1971.5	2071.5	7.15	6.93	6.85
2032.0	2132.0	7.13	6.94	6.91
2092.5	2192.5	7.12	6.92	6.90
2153.0	2253.0	7.13	6.93	6.91
2213.5	2313.5	7.34	7.15	7.21
2274.0	2374.0	7.41	7.22	7.29
2334.5	2434.5	7.61	7.40	7.52
2395.0	2495.0	7.94	7.75	7.90
2455.5	2555.5	8.09	7.89	8.04
2536.1	2636.1	8.51	8.30	8.50
2596.6	2696.6	9.01	8.81	9.01
2677.3	2777.3	9.48	9.30	9.50
2737.8	2837.8	9.69	9.51	9.76
2818.4	2918.4	10.07	9.88	10.15
2878.9	2978.9	10.45	10.27	10.54
2959.6	3059.6	10.75	10.60	10.84
3020.1	3120.1	10.81	10.65	10.89

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+17	+20	+23
580.1	680.1	16.73	18.95	21.41
640.6	740.6	19.65	22.38	24.64
701.1	801.1	18.96	21.28	24.92
761.6	861.6	20.29	21.36	22.76
822.1	922.1	21.14	24.05	27.03
882.6	982.6	20.99	23.23	25.19
943.1	1043.1	20.86	22.93	25.03
1003.6	1103.6	20.64	22.80	25.60
1064.1	1164.1	20.89	23.10	25.66
1124.6	1224.6	20.79	23.03	25.77
1185.1	1285.1	20.87	23.11	26.06
1245.6	1345.6	19.46	21.51	24.13
1306.1	1406.1	22.03	24.56	27.40
1366.5	1466.5	23.70	26.54	28.76
1427.0	1527.0	22.32	25.27	27.45
1487.5	1587.5	23.41	26.25	29.06
1548.0	1648.0	23.98	26.81	29.59
1608.5	1708.5	25.12	26.90	28.65
1669.0	1769.0	24.78	27.40	30.65
1729.5	1829.5	25.28	28.15	31.40
1790.0	1890.0	25.65	28.66	32.43
1850.5	1950.5	27.14	30.15	33.85
1911.0	2011.0	27.82	31.53	35.46
1971.5	2071.5	28.13	31.02	35.81
2032.0	2132.0	28.64	31.19	35.25
2092.5	2192.5	28.55	31.29	35.39
2153.0	2253.0	28.16	30.70	34.45
2213.5	2313.5	28.85	31.46	36.15
2274.0	2374.0	28.90	31.05	34.80
2334.5	2434.5	28.60	31.32	34.29
2395.0	2495.0	29.17	31.63	35.84
2455.5	2555.5	29.03	31.29	35.55
2536.1	2636.1	29.24	31.74	36.11
2596.6	2696.6	29.72	32.94	37.49
2677.3	2777.3	30.32	33.59	39.32
2737.8	2837.8	30.09	32.98	37.67
2818.4	2918.4	29.56	32.63	35.59
2878.9	2978.9	29.70	32.98	35.06
2959.6	3059.6	30.26	33.58	34.81
3020.1	3120.1	29.47	32.92	35.84

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+20dBm (dB)		
		@LO (dBm)		
		+17	+20	+23
580.1	680.1	5.19	3.21	1.93
640.6	740.6	3.89	2.36	1.36
701.1	801.1	4.02	2.81	1.59
761.6	861.6	4.17	2.95	1.84
822.1	922.1	4.27	2.86	1.72
882.6	982.6	4.25	2.66	1.48
943.1	1043.1	4.03	2.42	1.23
1003.6	1103.6	3.87	2.19	1.16
1064.1	1164.1	3.60	1.99	1.04
1124.6	1224.6	3.54	1.98	1.00
1185.1	1285.1	3.24	1.81	0.92
1245.6	1345.6	3.24	2.02	1.09
1306.1	1406.1	1.67	0.85	0.53
1366.5	1466.5	3.26	1.64	0.64
1427.0	1527.0	3.37	1.95	0.80
1487.5	1587.5	2.80	1.34	0.59
1548.0	1648.0	2.40	1.14	0.49
1608.5	1708.5	2.25	0.27	0.17
1669.0	1769.0	2.07	0.89	0.25
1729.5	1829.5	1.79	0.77	0.24
1790.0	1890.0	1.67	0.75	0.26
1850.5	1950.5	1.30	0.61	0.20
1911.0	2011.0	1.16	0.52	0.19
1971.5	2071.5	1.18	0.50	0.17
2032.0	2132.0	0.97	0.43	0.12
2092.5	2192.5	0.95	0.43	0.14
2153.0	2253.0	1.03	0.49	0.19
2213.5	2313.5	0.89	0.42	0.17
2274.0	2374.0	0.94	0.45	0.19
2334.5	2434.5	1.08	0.47	0.21
2395.0	2495.0	0.85	0.38	0.16
2455.5	2555.5	0.98	0.44	0.20
2536.1	2636.1	0.98	0.43	0.18
2596.6	2696.6	0.87	0.38	0.17
2677.3	2777.3	0.73	0.33	0.13
2737.8	2837.8	0.78	0.36	0.13
2818.4	2918.4	0.78	0.35	0.12
2878.9	2978.9	0.68	0.30	0.11
2959.6	3059.6	0.58	0.25	0.08
3020.1	3120.1	0.67	0.30	0.11

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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)=2050MHz (dB)
		@LO (dBm) +20
1350.0	700.0	11.29
1272.3	777.7	9.98
1194.6	855.4	8.42
1117.0	933.0	8.03
1039.3	1010.7	7.75
961.6	1088.4	7.70
883.9	1166.1	7.61
825.7	1224.3	7.74
748.0	1302.0	7.91
689.7	1360.3	7.89
612.0	1438.0	8.00
553.8	1496.2	7.34
476.1	1573.9	7.49
417.8	1632.2	7.55
340.1	1709.9	7.86
281.9	1768.1	7.57
204.2	1845.8	7.37
145.9	1904.1	7.32
68.3	1981.7	7.20
10.0	2040.0	6.97
72.6	2122.6	6.88
135.2	2185.2	6.77
218.7	2268.7	6.67
281.3	2331.3	6.79
364.8	2414.8	6.92
427.4	2477.4	6.92
510.9	2560.9	6.99
573.5	2623.5	7.20
657.0	2707.0	7.46
719.6	2769.6	7.46
803.0	2853.0	7.70
865.7	2915.7	7.97
949.1	2999.1	8.19
1011.7	3061.7	8.40
1095.2	3145.2	8.85
1157.8	3207.8	9.12
1241.3	3291.3	9.38
1303.9	3353.9	9.75
1387.4	3437.4	10.15
1450.0	3500.0	10.32

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1589.9MHz (dB)
		@LO (dBm) +20
10.1	1600.0	7.05
50.6	1640.5	7.05
91.0	1680.9	7.99
131.5	1721.4	7.29
172.0	1761.9	6.88
212.5	1802.4	6.80
252.9	1842.8	6.71
293.4	1883.3	6.71
333.9	1923.8	6.69
374.3	1964.2	6.71
414.8	2004.7	6.61
455.3	2045.2	6.57
495.7	2085.6	6.54
536.2	2126.1	6.56
576.7	2166.6	6.69
617.2	2207.1	6.79
657.6	2247.5	6.93
698.1	2288.0	6.91
738.6	2328.5	6.97
779.0	2368.9	7.01
819.5	2409.4	7.09
860.0	2449.9	7.20
900.5	2490.4	7.26
940.9	2530.8	7.32
981.4	2571.3	7.39
1021.9	2611.8	7.50
1062.3	2652.2	7.71
1123.0	2712.9	8.01
1163.5	2753.4	8.21
1224.2	2814.1	8.43
1264.7	2854.6	8.67
1325.4	2915.3	9.08
1365.9	2955.8	9.30
1426.6	3016.5	9.53
1467.0	3056.9	9.81
1527.7	3117.6	10.12
1568.2	3158.1	10.33
1628.9	3218.8	10.53
1669.4	3259.3	10.59
1730.1	3320.0	10.83

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2510.1MHz (dB)
		@LO (dBm) +20
1030.1	1480.0	11.01
1010.1	1500.0	10.19
990.1	1520.0	9.85
970.1	1540.0	9.69
950.1	1560.0	9.61
930.1	1580.0	9.66
910.1	1600.0	9.66
890.1	1620.0	9.73
870.1	1640.0	9.72
850.1	1660.0	9.72
830.1	1680.0	10.30
810.1	1700.0	10.26
790.1	1720.0	9.80
770.1	1740.0	9.54
750.1	1760.0	9.54
730.1	1780.0	9.53
690.1	1820.0	9.50
670.1	1840.0	9.43
630.1	1880.0	9.41
610.1	1900.0	9.32
570.1	1940.0	9.17
550.1	1960.0	9.18
510.1	2000.0	8.99
490.1	2020.0	8.97
450.1	2060.0	8.94
430.1	2080.0	8.80
390.1	2120.0	8.82
370.1	2140.0	8.78
330.1	2180.0	8.65
310.1	2200.0	8.66
270.1	2240.0	8.59
250.1	2260.0	8.51
210.1	2300.0	8.42
190.1	2320.0	8.34
150.1	2360.0	8.26
130.1	2380.0	8.29
90.1	2420.0	8.18
70.1	2440.0	8.17
30.1	2480.0	8.11
10.1	2500.0	7.99

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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)		
	+17	+20	+23	+17	+20	+23
680.1	33.23	33.00	32.96	30.77	31.20	31.27
740.6	33.16	32.42	31.97	30.70	31.15	31.25
801.1	37.64	36.54	35.87	31.69	31.57	31.49
861.6	44.23	43.43	42.76	35.84	35.71	35.76
922.1	50.71	49.65	49.06	38.97	38.84	38.96
982.6	56.97	55.21	53.73	41.23	41.21	41.11
1043.1	62.21	60.26	58.38	42.73	42.64	42.57
1103.6	68.09	71.29	62.75	43.91	43.79	43.74
1164.1	59.76	62.83	67.01	44.57	44.45	44.50
1224.6	55.63	56.62	58.00	45.39	45.29	45.25
1285.1	51.67	52.19	52.12	47.60	47.62	47.84
1345.6	50.72	51.82	52.43	45.40	44.72	44.20
1406.1	50.71	54.15	56.44	44.46	42.84	41.50
1466.5	46.79	48.46	49.75	39.82	40.94	41.78
1527.0	48.62	49.37	47.48	37.25	37.90	38.99
1587.5	52.91	53.59	53.72	37.17	37.65	38.24
1648.0	53.66	53.59	53.27	37.01	37.40	37.83
1708.5	53.55	57.47	56.40	36.80	37.68	38.42
1769.0	50.97	51.07	51.07	36.43	36.59	36.92
1829.5	51.72	52.04	52.23	36.44	36.62	36.89
1890.0	51.30	51.46	51.19	36.28	36.48	36.56
1950.5	49.70	49.63	48.93	36.29	36.65	36.70
2011.0	48.95	48.29	47.64	36.57	36.75	37.05
2071.5	49.59	48.84	47.95	36.87	37.09	37.28
2132.0	49.47	49.66	49.68	37.39	37.68	37.99
2192.5	47.49	48.22	48.78	37.92	38.19	38.35
2253.0	46.39	47.01	47.45	38.31	38.70	38.76
2313.5	46.87	47.34	47.53	39.24	39.59	39.58
2374.0	48.35	48.45	48.54	40.46	40.86	40.79
2434.5	48.98	48.51	48.38	42.16	42.75	42.61
2495.0	49.34	48.47	48.28	43.50	44.00	43.99
2555.5	50.26	49.22	48.67	42.87	43.30	43.46
2636.1	52.40	51.10	50.09	40.56	40.64	41.14
2696.6	56.47	53.98	53.20	39.51	39.50	40.25
2777.3	60.55	63.06	59.54	37.92	37.97	38.54
2837.8	55.67	63.18	63.38	36.48	36.58	37.39
2918.4	52.24	53.90	53.55	35.84	35.86	36.56
2978.9	51.74	53.02	52.89	36.06	36.01	36.53
3059.6	52.16	53.84	53.80	35.84	35.86	36.19
3120.1	52.56	54.28	54.60	35.26	35.25	35.44

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+17	+20	+23
580.1	680.1	21.18	21.72	21.25
640.6	740.6	23.03	23.31	23.33
701.1	801.1	24.73	24.11	23.38
761.6	861.6	27.80	30.21	30.10
822.1	922.1	28.60	33.42	34.23
882.6	982.6	27.46	31.34	29.82
943.1	1043.1	28.55	33.89	35.51
1003.6	1103.6	27.37	29.62	22.65
1064.1	1164.1	30.06	34.92	34.40
1124.6	1224.6	31.44	36.64	33.47
1185.1	1285.1	31.41	35.37	31.22
1245.6	1345.6	39.81	45.53	38.72
1306.1	1406.1	45.65	35.83	30.23
1366.5	1466.5	44.87	41.73	40.36
1427.0	1527.0	34.43	41.25	30.04
1487.5	1587.5	38.62	62.36	47.23
1548.0	1648.0	40.89	59.57	43.28
1608.5	1708.5	43.87	42.58	46.41
1669.0	1769.0	59.53	41.13	48.00
1729.5	1829.5	53.55	40.16	45.77
1790.0	1890.0	48.35	38.34	40.59
1850.5	1950.5	44.30	37.60	40.78
1911.0	2011.0	41.40	35.85	37.70
1971.5	2071.5	41.26	35.99	39.95
2032.0	2132.0	39.34	35.07	38.64
2092.5	2192.5	38.75	34.73	38.79
2153.0	2253.0	39.16	35.05	39.79
2213.5	2313.5	39.65	35.67	40.84
2274.0	2374.0	41.90	37.19	45.68
2334.5	2434.5	44.40	38.39	49.70
2395.0	2495.0	44.53	39.02	49.33
2455.5	2555.5	43.91	39.54	45.70
2536.1	2636.1	41.12	39.40	40.97
2596.6	2696.6	39.61	38.38	40.10
2677.3	2777.3	39.66	38.94	39.80
2737.8	2837.8	39.52	39.76	37.92
2818.4	2918.4	38.42	39.60	36.35
2878.9	2978.9	38.15	39.44	37.34
2959.6	3059.6	37.86	39.36	37.78
3020.1	3120.1	36.87	38.60	37.00

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=2500MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+17	+20	+23		+17	+20	+23		+17	+20	+23
580.1	680.1	1.83	1.83	1.76	680.1	16.41	16.56	16.11	10.0	1.10	1.13	1.20
640.6	740.6	1.91	1.93	1.93	740.6	11.17	11.24	11.09	50.0	1.15	1.18	1.24
701.1	801.1	2.10	2.14	2.14	801.1	12.26	12.44	12.44	90.0	1.18	1.20	1.25
761.6	861.6	2.30	2.34	2.34	861.6	17.05	17.22	17.22	130.0	1.27	1.29	1.33
822.1	922.1	2.45	2.49	2.48	922.1	20.95	20.70	19.54	170.0	1.29	1.31	1.34
882.6	982.6	2.60	2.64	2.62	982.6	23.18	23.18	22.58	210.0	1.35	1.37	1.40
943.1	1043.1	2.62	2.65	2.63	1043.1	24.14	23.81	22.87	250.0	1.39	1.41	1.41
1003.6	1103.6	2.57	2.57	2.52	1103.6	23.18	22.29	19.98	290.0	1.54	1.56	1.57
1064.1	1164.1	2.52	2.50	2.45	1164.1	23.49	23.49	22.87	330.0	1.60	1.62	1.63
1124.6	1224.6	2.48	2.47	2.39	1224.6	22.00	20.95	18.50	370.0	1.61	1.63	1.63
1185.1	1285.1	2.41	2.40	2.33	1285.1	20.70	20.22	18.70	410.0	1.62	1.64	1.64
1245.6	1345.6	2.26	2.23	2.16	1345.6	18.50	18.30	17.57	450.0	1.59	1.60	1.60
1306.1	1406.1	1.77	1.72	1.66	1406.1	13.81	13.19	11.93	490.0	1.58	1.60	1.58
1366.5	1466.5	1.62	1.58	1.53	1466.5	14.62	14.74	14.38	530.0	1.50	1.51	1.50
1427.0	1527.0	1.66	1.63	1.56	1527.0	15.53	15.53	14.38	570.0	1.47	1.47	1.45
1487.5	1587.5	1.57	1.53	1.46	1587.5	14.87	14.50	13.09	610.0	1.37	1.38	1.35
1548.0	1648.0	1.45	1.42	1.34	1648.0	14.26	14.26	13.60	650.0	1.32	1.31	1.28
1608.5	1708.5	1.33	1.24	1.15	1708.5	12.09	10.96	9.79	690.0	1.25	1.24	1.20
1669.0	1769.0	1.24	1.20	1.14	1769.0	11.31	11.03	10.13	730.0	1.18	1.16	1.12
1729.5	1829.5	1.15	1.11	1.07	1829.5	9.90	9.90	9.63	770.0	1.13	1.11	1.06
1790.0	1890.0	1.13	1.11	1.11	1890.0	8.47	8.35	7.80	810.0	1.10	1.06	1.03
1850.5	1950.5	1.18	1.18	1.22	1950.5	7.34	7.28	6.94	850.0	1.11	1.08	1.09
1911.0	2011.0	1.29	1.31	1.36	2011.0	6.39	6.44	6.35	890.0	1.16	1.15	1.18
1971.5	2071.5	1.39	1.41	1.48	2071.5	5.56	5.52	5.27	930.0	1.22	1.22	1.27
2032.0	2132.0	1.52	1.56	1.65	2132.0	4.92	4.95	4.87	970.0	1.28	1.29	1.35
2092.5	2192.5	1.63	1.67	1.80	2192.5	4.52	4.56	4.54	1010.0	1.38	1.39	1.47
2153.0	2253.0	1.74	1.78	1.93	2253.0	4.16	4.16	4.04	1050.0	1.43	1.45	1.54
2213.5	2313.5	1.90	1.96	2.13	2313.5	4.03	4.06	4.04	1090.0	1.54	1.57	1.67
2274.0	2374.0	2.04	2.09	2.29	2374.0	4.01	4.03	4.03	1130.0	1.62	1.65	1.76
2334.5	2434.5	2.21	2.28	2.50	2434.5	3.97	3.96	3.86	1170.0	1.73	1.76	1.89
2395.0	2495.0	2.37	2.44	2.66	2495.0	4.12	4.14	4.15	1210.0	1.86	1.90	2.04
2455.5	2555.5	2.53	2.60	2.82	2555.5	4.20	4.20	4.17	1250.0	1.96	1.99	2.13
2536.1	2636.1	2.74	2.82	3.05	2636.1	4.31	4.25	4.16	1290.0	2.13	2.19	2.35
2596.6	2696.6	2.85	2.93	3.14	2696.6	4.52	4.46	4.38	1330.0	2.23	2.29	2.45
2677.3	2777.3	2.97	3.05	3.25	2777.3	4.75	4.73	4.70	1370.0	2.40	2.46	2.64
2737.8	2837.8	3.11	3.20	3.40	2837.8	4.79	4.75	4.80	1390.0	2.45	2.52	2.70
2818.4	2918.4	3.10	3.18	3.37	2918.4	4.99	4.89	4.86	1430.0	2.65	2.71	2.91
2878.9	2978.9	3.07	3.16	3.33	2978.9	5.22	5.14	5.09	1450.0	2.71	2.78	2.97
2959.6	3059.6	3.07	3.15	3.30	3059.6	5.44	5.41	5.39	1490.0	2.86	2.94	3.14
3020.1	3120.1	2.93	3.01	3.14	3120.1	5.66	5.61	5.54	1510.0	2.97	3.05	3.25

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	11	17	24	34	33	33	39	61	53	49
1	-	25	+0	34	25	41	29	45	51	56	66	69
2	58	57	67	62	>83	78	73	74	>83	71	78	>83
3	>90	>83	76	>83	70	>83	>83	>83	>83	>83	>83	>83
4	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
5	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
6	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
7	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
8	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
9	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
10	>90	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83	>83
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 2050 MHz; 0.00 dBm.
LO IN: 2150 MHz; +20.00 dBm
IF OUT: 100 MHz; -6.9 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	22	27	34	47	42	43	51	69	65	62
1	-	25	+0	34	25	41	29	46	52	57	65	70
2	38	46	54	51	74	68	62	63	74	61	69	89
3	67	78	55	68	47	69	64	90	64	74	81	84
4	>90	76	>93	76	77	75	82	>93	83	89	88	91
5	>90	>93	89	93	85	76	76	82	89	87	90	>93
6	>90	>93	>93	>93	>93	>93	>93	91	>93	>93	>93	>93
7	>90	>93	>93	>93	>93	>93	>93	>93	87	>93	>93	>93
8	>90	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93
9	>90	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93
10	>90	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93	>93
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 2050 MHz; 10.00 dBm.
LO IN: 2150 MHz; +20.00 dBm
IF OUT: 100 MHz; 3.07 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.