

Frequency Mixer

HJK-ED11744/2

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=276.5MHz (dB)		
		@LO (dBm)		
		+15	+18	+21
370.0	646.5	11.42	11.07	10.48
460.0	736.5	9.94	8.97	8.41
550.0	826.5	9.04	8.21	7.79
640.0	916.5	9.77	8.24	7.54
730.0	1006.5	8.86	7.65	7.19
820.0	1096.5	8.27	7.31	6.96
910.0	1186.5	7.89	7.20	6.93
1000.0	1276.5	7.73	7.18	6.91
1090.0	1366.5	7.61	7.05	6.80
1180.0	1456.5	7.79	7.26	7.05
1270.0	1546.5	7.97	7.53	7.32
1360.0	1636.5	7.61	7.26	7.07
1450.0	1726.5	7.32	7.04	6.91
1540.0	1816.5	7.10	6.85	6.76
1630.0	1906.5	7.05	6.81	6.71
1720.0	1996.5	7.04	6.83	6.73
1810.0	2086.5	7.07	6.90	6.80
1900.0	2176.5	7.46	7.38	7.35
1990.0	2266.5	7.68	7.66	7.70
2080.0	2356.5	7.48	7.42	7.43
2170.0	2446.5	7.45	7.34	7.33
2260.0	2536.5	7.49	7.31	7.25
2350.0	2626.5	7.55	7.32	7.24
2440.0	2716.5	7.67	7.39	7.28
2530.0	2806.5	7.77	7.45	7.32
2620.0	2896.5	7.84	7.48	7.29
2710.0	2986.5	7.92	7.51	7.30
2800.0	3076.5	8.11	7.67	7.48
2890.0	3166.5	8.35	7.92	7.73
2980.0	3256.5	8.47	8.01	7.81
3070.0	3346.5	8.59	8.12	7.92
3160.0	3436.5	8.66	8.25	8.05
3250.0	3526.5	8.80	8.36	8.14
3340.0	3616.5	9.04	8.57	8.30
3440.0	3716.5	9.15	8.74	8.51
3530.0	3806.5	9.28	8.86	8.65
3630.0	3906.5	9.56	9.09	8.81
3720.0	3996.5	9.95	9.41	9.12
3820.0	4096.5	10.23	9.73	9.32
3910.0	4186.5	10.73	10.28	9.89

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+15	+18	+21
370.0	646.5	13.29	16.97	27.41
460.0	736.5	15.81	18.54	20.48
550.0	826.5	14.30	16.84	18.37
640.0	916.5	13.20	14.18	16.31
730.0	1006.5	18.20	17.35	19.43
820.0	1096.5	18.15	18.10	20.18
910.0	1186.5	18.72	19.92	22.32
1000.0	1276.5	19.99	21.21	22.17
1090.0	1366.5	18.78	20.94	23.56
1180.0	1456.5	18.45	20.07	22.08
1270.0	1546.5	18.03	20.02	22.27
1360.0	1636.5	21.17	23.82	25.55
1450.0	1726.5	23.07	24.91	26.21
1540.0	1816.5	23.72	25.88	27.65
1630.0	1906.5	24.97	27.46	29.56
1720.0	1996.5	26.67	28.96	31.18
1810.0	2086.5	30.27	30.56	31.39
1900.0	2176.5	26.92	30.42	33.27
1990.0	2266.5	28.93	31.90	34.74
2080.0	2356.5	27.45	30.62	34.93
2170.0	2446.5	24.16	27.54	32.26
2260.0	2536.5	22.94	26.32	29.41
2350.0	2626.5	22.28	26.64	28.58
2440.0	2716.5	22.01	26.56	28.90
2530.0	2806.5	21.51	25.72	28.97
2620.0	2896.5	21.31	24.76	28.28
2710.0	2986.5	20.53	23.73	27.44
2800.0	3076.5	20.08	23.92	27.75
2890.0	3166.5	20.01	23.78	27.84
2980.0	3256.5	20.01	23.98	28.13
3070.0	3346.5	20.09	23.92	28.42
3160.0	3436.5	20.63	24.20	29.19
3250.0	3526.5	20.77	24.20	28.71
3340.0	3616.5	20.69	24.00	28.19
3440.0	3716.5	20.85	23.86	28.20
3530.0	3806.5	20.88	23.87	28.70
3630.0	3906.5	21.36	23.98	27.97
3720.0	3996.5	22.20	24.50	27.64
3820.0	4096.5	23.97	26.07	28.68
3910.0	4186.5	26.03	28.22	31.49

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+17dBm (dB)		
		@LO (dBm)		
		+15	+18	+21
370.0	646.5	2.80	1.54	1.04
460.0	736.5	3.36	2.22	1.51
550.0	826.5	5.78	3.77	2.30
640.0	916.5	7.53	7.19	6.06
730.0	1006.5	3.52	2.95	2.33
820.0	1096.5	3.57	2.81	2.10
910.0	1186.5	3.63	2.64	1.87
1000.0	1276.5	3.87	2.64	1.81
1090.0	1366.5	4.58	3.10	2.02
1180.0	1456.5	6.09	4.25	2.86
1270.0	1546.5	7.20	4.80	3.03
1360.0	1636.5	2.64	1.63	0.98
1450.0	1726.5	2.02	1.11	0.66
1540.0	1816.5	1.66	0.92	0.55
1630.0	1906.5	1.26	0.67	0.39
1720.0	1996.5	1.00	0.52	0.29
1810.0	2086.5	0.71	0.35	0.19
1900.0	2176.5	0.52	0.23	0.15
1990.0	2266.5	0.70	0.31	0.14
2080.0	2356.5	0.79	0.35	0.13
2170.0	2446.5	1.16	0.63	0.23
2260.0	2536.5	1.45	0.97	0.41
2350.0	2626.5	1.33	0.90	0.46
2440.0	2716.5	1.43	0.87	0.49
2530.0	2806.5	1.51	0.91	0.56
2620.0	2896.5	1.68	1.06	0.64
2710.0	2986.5	1.95	1.24	0.75
2800.0	3076.5	2.07	1.28	0.76
2890.0	3166.5	2.17	1.32	0.79
2980.0	3256.5	1.99	1.24	0.73
3070.0	3346.5	1.80	1.16	0.66
3160.0	3436.5	1.67	1.08	0.58
3250.0	3526.5	1.72	1.15	0.60
3340.0	3616.5	1.64	1.13	0.61
3440.0	3716.5	1.65	1.13	0.57
3530.0	3806.5	1.70	1.16	0.57
3630.0	3906.5	1.58	1.08	0.54
3720.0	3996.5	1.45	0.95	0.52
3820.0	4096.5	1.34	0.90	0.56
3910.0	4186.5	1.15	0.70	0.37

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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)=2100MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2180.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+18			+18			+18
1360.0	780.0	10.26	10.1	2110.1	7.14	1370.1	810.0	10.22
1284.2	855.8	9.89	70.6	2170.6	7.07	1329.5	850.6	9.97
1208.3	931.7	9.53	131.2	2231.2	7.48	1288.9	891.2	9.89
1132.5	1007.5	9.20	191.7	2291.7	7.41	1248.3	931.8	9.63
1056.6	1083.4	9.09	252.2	2352.2	7.44	1207.7	972.4	9.43
980.8	1159.2	9.29	312.8	2412.8	7.47	1167.1	1013.0	9.26
904.9	1235.1	9.45	373.3	2473.3	7.50	1126.5	1053.6	9.08
829.1	1310.9	9.27	433.8	2533.8	7.72	1085.9	1094.2	9.05
768.4	1371.6	8.85	494.3	2594.3	7.86	1045.3	1134.8	9.19
692.6	1447.4	8.38	554.9	2654.9	7.97	1004.7	1175.4	9.28
631.9	1508.1	7.94	615.4	2715.4	8.11	964.1	1216.0	9.48
556.1	1583.9	7.64	675.9	2775.9	8.16	923.5	1256.6	9.51
495.4	1644.6	7.44	736.5	2836.5	8.31	882.9	1297.2	9.42
419.6	1720.4	7.15	797.0	2897.0	8.40	842.3	1337.8	9.24
358.9	1781.1	7.05	857.5	2957.5	8.47	801.7	1378.4	8.89
283.0	1857.0	6.99	918.1	3018.1	8.47	761.1	1419.0	8.66
222.4	1917.6	6.97	978.6	3078.6	8.49	720.5	1459.6	8.31
146.5	1993.5	6.86	1039.1	3139.1	8.46	680.0	1500.1	8.16
85.8	2054.2	6.79	1099.7	3199.7	8.52	639.4	1540.7	7.98
10.0	2130.0	7.11	1160.2	3260.2	8.57	619.1	1561.0	7.83
84.8	2224.8	7.38	1220.7	3320.7	8.63	578.5	1601.6	7.71
209.6	2349.6	7.26	1281.3	3381.3	8.70	558.2	1621.9	7.66
309.3	2449.3	7.38	1341.8	3441.8	8.71	517.6	1662.5	7.47
434.0	2574.0	7.65	1402.3	3502.3	8.99	497.3	1682.8	7.41
533.8	2673.8	7.86	1462.8	3562.8	9.09	456.7	1723.4	7.34
658.5	2798.5	8.16	1523.4	3623.4	8.95	436.4	1743.7	7.19
758.3	2898.3	8.36	1583.9	3683.9	8.99	395.8	1784.3	7.13
883.0	3023.0	8.42	1644.4	3744.4	8.88	375.5	1804.6	7.14
982.8	3122.8	8.43	1705.0	3805.0	8.74	334.9	1845.2	7.09
1107.5	3247.5	8.43	1765.5	3865.5	8.61	314.6	1865.5	7.05
1207.3	3347.3	8.54	1826.0	3926.0	8.50	274.0	1906.1	7.05
1332.0	3472.0	8.79	1886.6	3986.6	8.58	253.7	1926.4	7.00
1431.8	3571.8	9.05	1926.9	4026.9	8.60	213.1	1967.0	6.96
1556.5	3696.5	9.02	1987.4	4087.4	8.80	192.8	1987.3	6.99
1656.3	3796.3	8.83	2027.8	4127.8	8.91	152.2	2027.9	6.88
1781.0	3921.0	8.53	2088.3	4188.3	9.19	131.9	2048.2	6.83
1880.8	4020.8	8.55	2128.7	4228.7	9.34	91.3	2088.8	6.76
2005.5	4145.5	8.97	2189.2	4289.2	9.71	71.0	2109.1	6.80
2105.3	4245.3	9.43	2229.6	4329.6	9.89	30.4	2149.7	6.87
2230.0	4370.0	9.90	2290.1	4390.1	10.00	10.1	2170.0	7.23

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+15	+18	+21	+15	+18	+21
646.5	55.46	58.36	58.55	41.09	40.68	41.74
736.5	53.62	53.75	54.54	48.50	48.00	48.32
826.5	50.43	51.17	52.09	50.35	50.10	50.62
916.5	47.27	47.59	48.28	47.94	47.72	48.22
1006.5	45.08	45.56	46.45	44.47	43.97	44.31
1096.5	43.65	44.21	45.09	43.30	42.96	43.53
1186.5	41.45	41.69	42.09	43.05	43.10	43.97
1276.5	38.49	38.19	38.57	42.28	42.07	42.54
1366.5	37.17	37.05	37.61	39.48	39.44	39.88
1456.5	36.70	36.48	36.81	39.33	39.75	40.23
1546.5	36.37	36.49	36.95	37.74	37.95	38.46
1636.5	35.00	35.25	35.66	36.91	37.09	37.48
1726.5	33.49	33.63	34.21	36.29	36.42	36.92
1816.5	32.62	32.61	32.93	36.11	36.24	36.67
1906.5	35.58	36.05	36.08	38.91	39.16	39.29
1996.5	42.27	47.52	56.50	39.28	37.63	36.17
2086.5	35.47	36.10	36.29	33.78	32.57	31.24
2176.5	30.38	30.60	30.59	32.47	30.39	28.40
2266.5	34.29	35.58	36.58	40.19	40.98	41.39
2356.5	37.47	39.00	40.26	31.34	31.43	31.07
2446.5	39.78	41.16	41.94	29.24	29.57	29.44
2536.5	41.50	42.16	42.09	28.87	29.37	29.55
2626.5	40.91	40.34	39.78	29.31	29.75	30.34
2716.5	37.88	36.61	36.03	29.90	30.46	31.32
2806.5	34.02	32.46	31.92	30.80	31.35	32.33
2896.5	33.69	32.06	31.31	40.17	41.81	43.76
2986.5	39.27	37.14	35.65	36.34	35.44	34.68
3076.5	46.24	42.34	40.96	32.86	32.29	32.28
3166.5	43.14	40.84	39.62	31.58	31.20	31.24
3256.5	38.09	36.88	36.28	30.77	30.43	30.52
3346.5	34.70	34.16	33.61	29.64	29.65	29.60
3436.5	32.26	31.79	31.46	28.88	28.80	28.82
3526.5	30.31	29.99	29.45	28.13	28.06	27.80
3616.5	28.30	28.16	27.71	27.31	27.35	27.03
3716.5	26.22	26.06	25.48	26.58	26.69	26.33
3806.5	24.54	24.38	23.89	26.10	26.23	25.99
3906.5	22.93	22.71	22.37	25.76	25.90	25.61
3996.5	21.66	21.40	20.70	25.52	25.67	25.50
4096.5	20.30	20.08	19.24	25.38	25.63	25.18
4186.5	19.55	19.25	18.34	25.72	25.98	25.55

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+15	+18	+21
370.0	646.5	34.74	32.41	34.54
460.0	736.5	38.70	41.22	49.83
550.0	826.5	36.53	36.01	36.99
640.0	916.5	36.91	34.13	33.72
730.0	1006.5	34.35	33.96	35.57
820.0	1096.5	31.96	30.13	27.46
910.0	1186.5	30.15	28.08	26.27
1000.0	1276.5	25.01	22.52	21.48
1090.0	1366.5	23.58	23.53	23.89
1180.0	1456.5	25.37	25.68	26.49
1270.0	1546.5	28.60	28.85	29.87
1360.0	1636.5	31.66	32.63	34.44
1450.0	1726.5	31.76	33.39	36.10
1540.0	1816.5	30.49	31.89	34.30
1630.0	1906.5	28.41	29.22	30.36
1720.0	1996.5	28.03	28.51	29.11
1810.0	2086.5	28.71	28.83	28.97
1900.0	2176.5	29.24	28.86	28.36
1990.0	2266.5	31.49	31.39	31.04
2080.0	2356.5	35.38	36.59	37.12
2170.0	2446.5	34.39	35.07	35.59
2260.0	2536.5	32.55	32.59	32.66
2350.0	2626.5	32.42	32.13	31.98
2440.0	2716.5	35.35	34.49	33.93
2530.0	2806.5	41.45	40.15	38.44
2620.0	2896.5	36.00	37.35	38.13
2710.0	2986.5	32.90	34.53	35.48
2800.0	3076.5	39.54	44.10	45.48
2890.0	3166.5	35.48	32.55	31.60
2980.0	3256.5	29.09	27.62	26.96
3070.0	3346.5	29.18	27.98	27.45
3160.0	3436.5	29.43	28.34	27.75
3250.0	3526.5	29.40	28.31	27.83
3340.0	3616.5	29.43	28.38	27.92
3440.0	3716.5	29.37	28.38	27.97
3530.0	3806.5	29.21	28.29	27.86
3630.0	3906.5	28.59	27.73	27.30
3720.0	3996.5	27.80	26.88	26.48
3820.0	4096.5	27.39	26.49	25.94
3910.0	4186.5	26.98	25.91	25.03

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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=2446.5MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+15	+18	+21		+15	+18	+21		+15	+18	+21
370.0	646.5	5.33	4.54	4.08	646.5	3.90	3.89	5.09	10.0	1.22	1.38	1.55
460.0	736.5	3.48	3.11	2.99	736.5	3.98	3.97	5.17	70.0	1.28	1.43	1.59
550.0	826.5	2.57	2.39	2.35	826.5	4.02	4.01	5.22	130.0	1.36	1.48	1.62
640.0	916.5	2.29	1.99	1.93	916.5	4.09	4.08	5.30	190.0	1.48	1.56	1.68
730.0	1006.5	1.64	1.47	1.56	1006.5	4.16	4.14	5.36	250.0	1.61	1.67	1.77
820.0	1096.5	1.29	1.18	1.32	1096.5	4.26	4.23	5.49	310.0	1.75	1.77	1.83
910.0	1186.5	1.18	1.05	1.22	1186.5	4.38	4.35	5.65	370.0	1.88	1.87	1.90
1000.0	1276.5	1.27	1.18	1.24	1276.5	4.53	4.50	5.83	430.0	2.02	1.99	2.00
1090.0	1366.5	1.44	1.30	1.30	1366.5	4.69	4.66	6.03	490.0	2.21	2.15	2.12
1180.0	1456.5	1.57	1.43	1.40	1456.5	4.84	4.80	6.19	550.0	2.33	2.25	2.20
1270.0	1546.5	1.68	1.57	1.57	1546.5	5.00	4.95	6.30	610.0	2.46	2.37	2.32
1360.0	1636.5	1.65	1.55	1.54	1636.5	5.14	5.06	6.39	670.0	2.53	2.42	2.34
1450.0	1726.5	1.63	1.54	1.53	1726.5	5.17	5.07	6.28	730.0	2.57	2.44	2.35
1540.0	1816.5	1.62	1.51	1.49	1816.5	4.98	4.87	5.87	790.0	2.64	2.51	2.41
1630.0	1906.5	1.57	1.47	1.44	1906.5	4.50	4.38	5.04	850.0	2.68	2.52	2.40
1720.0	1996.5	1.50	1.41	1.37	1996.5	3.82	3.72	4.01	910.0	2.68	2.51	2.39
1810.0	2086.5	1.43	1.34	1.31	2086.5	3.08	2.99	2.96	970.0	2.72	2.55	2.42
1900.0	2176.5	1.36	1.26	1.22	2176.5	2.40	2.32	2.09	1030.0	2.75	2.56	2.41
1990.0	2266.5	1.20	1.18	1.24	2266.5	2.24	2.21	1.92	1090.0	2.73	2.54	2.39
2080.0	2356.5	1.18	1.16	1.24	2356.5	2.22	2.21	1.96	1150.0	2.78	2.58	2.42
2170.0	2446.5	1.16	1.13	1.21	2446.5	2.31	2.31	2.17	1210.0	2.75	2.55	2.39
2260.0	2536.5	1.19	1.12	1.19	2536.5	2.47	2.47	2.42	1270.0	2.59	2.39	2.24
2350.0	2626.5	1.25	1.13	1.17	2626.5	2.65	2.65	2.69	1330.0	2.53	2.33	2.17
2440.0	2716.5	1.33	1.18	1.18	2716.5	2.81	2.80	2.93	1390.0	2.40	2.20	2.05
2530.0	2806.5	1.42	1.26	1.22	2806.5	2.94	2.94	3.15	1450.0	2.31	2.11	1.96
2620.0	2896.5	1.51	1.36	1.29	2896.5	2.95	2.93	3.20	1510.0	2.26	2.07	1.92
2710.0	2986.5	1.62	1.45	1.36	2986.5	3.06	3.05	3.36	1570.0	2.14	1.95	1.81
2800.0	3076.5	1.75	1.57	1.48	3076.5	3.18	3.17	3.54	1630.0	2.06	1.89	1.75
2890.0	3166.5	1.95	1.76	1.67	3166.5	3.29	3.27	3.70	1690.0	2.01	1.85	1.72
2980.0	3256.5	2.12	1.95	1.87	3256.5	3.38	3.36	3.84	1750.0	1.90	1.75	1.63
3070.0	3346.5	2.27	2.11	2.03	3346.5	3.45	3.43	3.93	1810.0	1.84	1.71	1.61
3160.0	3436.5	2.39	2.25	2.18	3436.5	3.50	3.48	3.98	1870.0	1.80	1.69	1.61
3250.0	3526.5	2.53	2.38	2.30	3526.5	3.52	3.49	3.98	1950.0	1.76	1.68	1.62
3340.0	3616.5	2.68	2.52	2.42	3616.5	3.52	3.47	3.91	2010.0	1.70	1.65	1.61
3440.0	3716.5	2.87	2.71	2.60	3716.5	3.51	3.46	3.88	2090.0	1.69	1.66	1.64
3530.0	3806.5	3.12	2.94	2.81	3806.5	3.41	3.35	3.68	2150.0	1.67	1.67	1.68
3630.0	3906.5	3.37	3.17	3.03	3906.5	3.22	3.16	3.40	2230.0	1.61	1.64	1.69
3720.0	3996.5	3.56	3.34	3.20	3996.5	2.96	2.91	2.68	2290.0	1.54	1.60	1.68
3820.0	4096.5	3.66	3.47	3.32	4096.5	2.64	2.59	2.41	2370.0	1.46	1.52	1.61
3910.0	4186.5	3.66	3.48	3.33	4186.5	2.34	2.29	2.14	2430.0	1.42	1.45	1.53

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	7	29	18	28	28	36	39	64	60	---
1	-	29	+0	36	19	36	32	41	43	52	76	65
2	54	62	51	59	64	53	62	56	63	63	66	>85
3	89	68	59	74	55	77	57	73	64	78	72	>85
4	>90	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85
5	>90	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85
6	>90	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85
7	>90	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85
8	>90	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85
9	>90	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85
10	>90	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 2140 MHz; 2.00 dBm.
LO IN: 2416.5 MHz; +18.00 dBm
IF OUT: 276.5 MHz; -5.46 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	17	37	28	34	39	53	52	74	81	---
1	-	29	+0	34	20	36	34	43	49	53	>94	66
2	34	52	39	49	48	44	62	47	54	57	61	82
3	59	47	39	55	35	60	37	55	45	61	54	73
4	83	61	68	69	65	57	70	58	77	71	73	76
5	>90	74	81	69	63	80	58	76	56	75	60	72
6	>90	86	84	79	92	77	72	77	72	74	81	74
7	>90	90	>94	93	89	83	76	81	78	87	79	94
8	>90	>94	94	91	>94	94	>94	87	87	>94	87	89
9	>90	>94	>94	>94	>94	>94	93	>94	79	91	82	91
10	>90	>94	>94	>94	>94	>94	>94	>94	>94	>94	>94	>94
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions:

RF IN: 2140 MHz; 12.00 dBm.
LO IN: 2416.5 MHz; +18.00 dBm
IF OUT: 276.5 MHz; 4.35 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.

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