

Frequency Mixer

HJK-ED13420/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=335MHz (dB)			RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)			RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+15dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+14	+17	+20			+14	+17	+20			+14	+17	+20
800.1	465.1	13.44	12.84	12.28	800.1	465.1	10.97	11.92	13.18	800.1	465.1	-0.79	-0.53	-0.40
880.1	545.1	8.32	8.36	8.42	880.1	545.1	20.28	22.31	26.01	880.1	545.1	1.06	0.84	0.54
960.1	625.1	7.71	7.69	7.71	960.1	625.1	24.77	28.42	31.82	960.1	625.1	0.70	0.38	0.18
1020.1	685.1	7.45	7.39	7.37	1020.1	685.1	26.95	30.22	32.24	1020.1	685.1	0.50	0.25	0.12
1100.1	765.1	7.35	7.28	7.26	1100.1	765.1	27.51	29.59	32.47	1100.1	765.1	0.37	0.20	0.11
1160.1	825.1	7.27	7.20	7.19	1160.1	825.1	27.78	30.14	33.31	1160.1	825.1	0.34	0.18	0.10
1240.1	905.1	7.27	7.20	7.18	1240.1	905.1	28.63	30.91	34.37	1240.1	905.1	0.27	0.16	0.10
1300.1	965.1	7.34	7.27	7.24	1300.1	965.1	28.29	30.51	33.98	1300.1	965.1	0.27	0.16	0.10
1380.1	1045.1	7.26	7.19	7.16	1380.1	1045.1	27.59	29.67	33.91	1380.1	1045.1	0.32	0.19	0.12
1440.1	1105.1	7.45	7.37	7.33	1440.1	1105.1	27.17	29.19	32.84	1440.1	1105.1	0.39	0.23	0.14
1520.1	1185.1	8.26	8.24	8.26	1520.1	1185.1	27.24	30.07	34.46	1520.1	1185.1	0.46	0.22	0.11
1580.1	1245.1	8.14	8.06	8.05	1580.1	1245.1	25.28	27.93	32.11	1580.1	1245.1	0.63	0.33	0.19
1660.1	1325.1	7.84	7.72	7.66	1660.1	1325.1	24.80	26.37	30.00	1660.1	1325.1	0.67	0.37	0.21
1720.1	1385.1	7.77	7.63	7.56	1720.1	1385.1	24.91	26.27	29.76	1720.1	1385.1	0.72	0.37	0.20
1800.1	1465.1	7.79	7.67	7.62	1800.1	1465.1	25.09	26.18	28.85	1800.1	1465.1	0.77	0.40	0.22
1860.1	1525.1	7.71	7.59	7.55	1860.1	1525.1	25.21	26.26	28.77	1860.1	1525.1	0.81	0.41	0.22
1940.1	1605.1	7.61	7.47	7.38	1940.1	1605.1	25.36	25.37	26.85	1940.1	1605.1	0.86	0.45	0.29
2000.1	1665.1	7.68	7.54	7.44	2000.1	1665.1	26.80	27.11	27.35	2000.1	1665.1	0.78	0.37	0.23
2080.1	1745.1	7.71	7.62	7.55	2080.1	1745.1	27.73	28.45	28.65	2080.1	1745.1	0.71	0.32	0.20
2140.1	1805.1	7.49	7.39	7.34	2140.1	1805.1	26.86	27.11	28.37	2140.1	1805.1	0.77	0.37	0.22
2220.1	1885.1	7.30	7.21	7.16	2220.1	1885.1	26.72	27.32	28.50	2220.1	1885.1	0.73	0.35	0.21
2280.1	1945.1	7.48	7.41	7.38	2280.1	1945.1	27.18	27.90	29.11	2280.1	1945.1	0.67	0.30	0.17
2360.1	2025.1	7.64	7.63	7.66	2360.1	2025.1	27.82	28.48	30.77	2360.1	2025.1	0.53	0.22	0.12
2420.1	2085.1	7.69	7.70	7.76	2420.1	2085.1	27.57	28.52	32.17	2420.1	2085.1	0.48	0.22	0.12
2500.1	2165.1	7.66	7.63	7.67	2500.1	2165.1	26.32	27.57	31.52	2500.1	2165.1	0.47	0.29	0.18
2560.1	2225.1	7.62	7.56	7.57	2560.1	2225.1	26.79	27.58	30.90	2560.1	2225.1	0.44	0.28	0.18
2640.1	2305.1	7.58	7.56	7.57	2640.1	2305.1	27.55	28.29	30.74	2640.1	2305.1	0.42	0.25	0.17
2700.1	2365.1	7.49	7.50	7.55	2700.1	2365.1	28.15	29.18	30.75	2700.1	2365.1	0.49	0.25	0.17
2780.1	2445.1	7.55	7.58	7.64	2780.1	2445.1	26.59	29.75	31.93	2780.1	2445.1	0.75	0.35	0.20
2840.1	2505.1	7.68	7.70	7.74	2840.1	2505.1	25.96	28.75	30.41	2840.1	2505.1	0.96	0.41	0.22
2920.1	2585.1	7.81	7.82	7.87	2920.1	2585.1	24.08	27.18	28.45	2920.1	2585.1	1.42	0.63	0.29
2980.1	2645.1	7.89	7.89	7.94	2980.1	2645.1	22.71	26.46	27.93	2980.1	2645.1	1.82	0.85	0.36
3060.1	2725.1	8.11	8.06	8.11	3060.1	2725.1	20.72	24.61	26.85	3060.1	2725.1	2.42	1.28	0.54
3120.1	2785.1	8.47	8.37	8.38	3120.1	2785.1	19.86	23.64	26.39	3120.1	2785.1	2.75	1.55	0.66
3200.1	2865.1	8.93	8.78	8.77	3200.1	2865.1	18.33	22.26	26.68	3200.1	2865.1	3.28	1.80	0.78
3260.1	2925.1	9.16	8.99	8.98	3260.1	2925.1	17.67	21.30	26.21	3260.1	2925.1	3.61	2.10	0.96
3340.1	3005.1	9.69	9.49	9.45	3340.1	3005.1	16.91	19.75	24.56	3340.1	3005.1	3.71	2.34	1.10
3400.1	3065.1	10.35	10.10	10.02	3400.1	3065.1	16.78	19.35	22.91	3400.1	3065.1	3.76	2.39	1.07
3480.1	3145.1	10.94	10.62	10.50	3480.1	3145.1	16.81	19.88	22.90	3480.1	3145.1	3.87	2.40	1.13
3540.1	3205.1	11.07	10.66	10.50	3540.1	3205.1	16.75	19.85	23.57	3540.1	3205.1	3.94	2.49	1.25

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2600MHz (dB)
		@LO (dBm)
		+17
2080.0	520.0	9.58
1971.1	628.9	9.37
1862.1	737.9	8.90
1753.2	846.8	8.55
1644.2	955.8	8.09
1535.3	1064.7	7.73
1426.3	1173.7	7.71
1317.4	1282.6	8.41
1208.4	1391.6	8.23
1099.5	1500.5	8.01
990.5	1609.5	7.74
881.6	1718.4	7.53
772.6	1827.4	7.32
663.7	1936.3	7.26
554.7	2045.3	7.17
445.8	2154.2	7.30
336.8	2263.2	7.45
227.9	2372.1	7.59
118.9	2481.1	7.59
10.0	2590.0	7.51
49.1	2649.1	7.57
101.2	2701.2	7.61
153.3	2753.3	7.59
205.4	2805.4	7.67
257.5	2857.5	7.78
309.6	2909.6	7.93
361.7	2961.7	8.20
413.8	3013.8	8.38
465.9	3065.9	8.64
518.0	3118.0	8.76
570.1	3170.1	8.95
622.2	3222.2	9.12
674.3	3274.3	9.36
726.4	3326.4	9.54
778.6	3378.6	9.65
817.6	3417.6	9.76
869.7	3469.7	9.83
908.8	3508.8	9.86
960.9	3560.9	9.93
1000.0	3600.0	9.91

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2500MHz (dB)
		@LO (dBm)
		+17
10.0	2510.0	7.73
30.0	2530.0	7.88
50.0	2550.0	7.83
70.0	2570.0	7.83
90.0	2590.0	7.92
110.0	2610.0	7.87
130.0	2630.0	7.90
150.0	2650.0	7.85
170.0	2670.0	7.89
190.0	2690.0	7.86
210.0	2710.0	7.87
230.0	2730.0	7.91
250.0	2750.0	7.92
270.0	2770.0	7.98
310.0	2810.0	8.05
330.0	2830.0	8.04
370.0	2870.0	8.24
390.0	2890.0	8.25
430.0	2930.0	8.45
450.0	2950.0	8.58
490.0	2990.0	8.72
510.0	3010.0	8.78
550.0	3050.0	8.98
570.0	3070.0	9.02
610.0	3110.0	9.11
630.0	3130.0	9.21
670.0	3170.0	9.33
690.0	3190.0	9.35
730.0	3230.0	9.53
750.0	3250.0	9.65
790.0	3290.0	9.74
810.0	3310.0	9.74
850.0	3350.0	9.88
870.0	3370.0	9.89
910.0	3410.0	9.93
930.0	3430.0	10.01
970.0	3470.0	10.04
990.0	3490.0	10.04
1030.0	3530.0	10.15
1050.0	3550.0	10.14

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2700.1001MHz (dB)
		@LO (dBm)
		+17
2190.1	510.0	10.70
2130.1	570.0	9.94
2070.1	630.0	9.50
2010.1	690.0	9.58
1950.1	750.0	9.12
1890.1	810.0	8.87
1830.1	870.0	8.68
1770.1	930.0	8.55
1710.1	990.0	8.26
1650.1	1050.0	7.98
1590.1	1110.0	7.76
1530.1	1170.0	7.66
1470.1	1230.0	7.79
1410.1	1290.0	8.09
1350.1	1350.0	8.49
1290.1	1410.0	8.36
1230.1	1470.0	8.11
1170.1	1530.0	7.95
1110.1	1590.0	7.86
1050.1	1650.0	7.66
990.1	1710.0	7.59
930.1	1770.0	7.42
870.1	1830.0	7.34
810.1	1890.0	7.22
770.1	1930.0	7.20
710.1	1990.0	7.15
670.1	2030.0	7.10
610.1	2090.0	7.11
570.1	2130.0	7.08
510.1	2190.0	7.12
470.1	2230.0	7.25
410.1	2290.0	7.44
370.1	2330.0	7.51
310.1	2390.0	7.56
270.1	2430.0	7.58
210.1	2490.0	7.58
170.1	2530.0	7.54
110.1	2590.0	7.62
70.1	2630.0	7.53
10.1	2690.0	7.37

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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
465.1	36.35	36.77	37.51	34.43	35.32	36.36
545.1	42.50	42.80	43.03	34.76	35.25	35.73
625.1	44.29	44.85	45.18	33.61	34.04	34.52
685.1	45.14	45.96	46.59	33.49	33.92	34.35
765.1	55.35	52.58	51.08	35.55	36.53	37.52
825.1	54.30	52.64	51.57	31.66	32.19	32.74
905.1	61.78	63.62	61.13	30.54	30.96	31.38
965.1	55.74	60.74	65.26	30.37	30.77	31.24
1045.1	50.82	53.13	54.80	30.42	30.84	31.26
1105.1	47.97	49.66	50.55	30.67	31.16	31.61
1185.1	45.87	46.90	47.34	31.88	32.50	33.09
1245.1	49.79	49.72	48.68	30.08	30.37	30.73
1325.1	47.04	48.94	50.21	29.50	29.74	30.03
1385.1	44.20	45.43	46.41	29.88	30.11	30.41
1465.1	40.26	40.52	40.70	30.15	30.34	30.60
1525.1	40.62	40.49	40.22	30.13	30.32	30.52
1605.1	45.01	44.01	42.96	30.71	30.90	31.09
1665.1	45.87	43.88	42.11	30.99	31.14	31.30
1745.1	43.16	40.73	38.97	33.08	33.46	33.96
1805.1	48.99	46.21	44.37	34.56	35.12	35.80
1885.1	57.50	53.80	50.80	34.45	34.93	35.42
1945.1	64.75	55.67	51.40	34.44	34.96	35.46
2025.1	56.87	51.40	48.97	34.38	34.85	35.52
2085.1	49.08	46.49	44.64	34.08	34.67	35.18
2165.1	42.56	41.29	39.91	33.29	34.18	34.75
2225.1	39.79	38.54	37.41	32.65	33.54	34.31
2305.1	35.16	34.36	33.36	31.81	32.58	33.15
2365.1	32.39	31.48	30.78	33.04	33.80	34.44
2445.1	30.76	29.92	29.20	33.79	34.76	35.59
2505.1	32.25	31.46	30.70	31.88	32.50	33.07
2585.1	36.90	36.09	35.86	32.14	32.66	33.33
2645.1	41.51	40.82	40.37	32.74	33.12	33.45
2725.1	45.97	45.62	45.30	33.67	34.11	34.41
2785.1	48.69	48.57	48.16	34.36	34.89	35.09
2865.1	50.27	50.12	50.37	35.26	35.54	35.86
2925.1	51.11	51.28	51.49	36.02	36.26	36.63
3005.1	48.52	49.26	49.47	36.79	37.22	37.29
3065.1	46.77	47.71	48.04	37.69	37.90	37.95
3145.1	44.44	45.46	46.29	38.49	38.42	38.53
3205.1	44.08	45.20	45.95	39.08	39.13	38.84

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
800.1	465.1	27.15	26.18	25.84
880.1	545.1	28.34	26.65	25.64
960.1	625.1	34.97	33.59	32.12
1020.1	685.1	34.42	33.68	32.70
1100.1	765.1	33.41	32.98	32.32
1160.1	825.1	33.09	32.71	32.13
1240.1	905.1	32.28	32.13	31.83
1300.1	965.1	31.59	31.47	31.25
1380.1	1045.1	29.89	29.72	29.64
1440.1	1105.1	27.24	26.94	26.59
1520.1	1185.1	25.88	25.59	25.04
1580.1	1245.1	27.51	27.20	26.34
1660.1	1325.1	29.52	29.32	28.67
1720.1	1385.1	30.17	29.96	29.30
1800.1	1465.1	31.15	30.79	29.88
1860.1	1525.1	31.95	31.45	30.41
1940.1	1605.1	35.99	35.43	34.15
2000.1	1665.1	37.48	37.49	36.55
2080.1	1745.1	37.67	37.36	36.27
2140.1	1805.1	38.42	38.31	37.53
2220.1	1885.1	38.96	38.70	38.31
2280.1	1945.1	38.94	38.81	38.78
2360.1	2025.1	40.44	40.26	40.70
2420.1	2085.1	43.33	42.97	42.42
2500.1	2165.1	39.50	39.28	38.65
2560.1	2225.1	36.04	36.08	35.98
2640.1	2305.1	33.80	33.78	33.93
2700.1	2365.1	32.47	32.27	32.23
2780.1	2445.1	31.57	31.83	31.93
2840.1	2505.1	30.27	30.72	31.15
2920.1	2585.1	29.19	29.34	29.51
2980.1	2645.1	28.74	28.77	28.90
3060.1	2725.1	27.91	27.94	28.04
3120.1	2785.1	27.50	27.28	27.33
3200.1	2865.1	26.94	26.71	26.56
3260.1	2925.1	26.89	26.45	26.12
3340.1	3005.1	26.74	26.27	25.81
3400.1	3065.1	26.99	26.39	25.78
3480.1	3145.1	27.87	27.45	26.91
3540.1	3205.1	29.31	29.45	29.26

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=2420MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
800.1	465.1	1.74	1.79	1.87	465.1	5.28	5.27	5.31	10.0	2.34	2.56	2.77
880.1	545.1	2.67	2.86	3.07	545.1	6.89	6.83	6.83	70.0	2.33	2.55	2.77
960.1	625.1	2.86	3.01	3.17	625.1	8.43	8.39	8.31	130.0	2.27	2.48	2.68
1020.1	685.1	3.02	3.14	3.27	685.1	9.58	9.63	9.63	190.0	2.18	2.37	2.56
1100.1	765.1	3.26	3.35	3.45	765.1	10.96	11.09	11.03	250.0	2.19	2.37	2.55
1160.1	825.1	3.31	3.40	3.48	825.1	12.71	12.89	12.71	310.0	2.14	2.29	2.44
1240.1	905.1	3.30	3.35	3.42	905.1	13.60	13.49	13.19	370.0	2.06	2.17	2.29
1300.1	965.1	3.29	3.34	3.38	965.1	12.52	12.26	12.09	430.0	2.09	2.18	2.29
1380.1	1045.1	3.10	3.11	3.13	1045.1	10.13	9.85	9.74	490.0	2.00	2.06	2.13
1440.1	1105.1	2.76	2.75	2.73	1105.1	8.68	8.39	8.27	550.0	1.92	1.94	1.98
1520.1	1185.1	2.74	2.73	2.72	1185.1	7.20	6.89	6.76	610.0	1.98	1.98	1.99
1580.1	1245.1	3.16	3.15	3.14	1245.1	6.32	6.15	6.09	670.0	1.96	1.92	1.91
1660.1	1325.1	3.25	3.22	3.20	1325.1	5.51	5.42	5.42	730.0	1.89	1.83	1.80
1720.1	1385.1	3.05	3.03	3.02	1385.1	5.23	5.17	5.16	790.0	1.95	1.87	1.83
1800.1	1465.1	2.93	2.89	2.87	1465.1	4.92	4.89	4.86	850.0	1.91	1.82	1.76
1860.1	1525.1	2.94	2.88	2.84	1525.1	4.53	4.56	4.56	910.0	1.90	1.81	1.74
1940.1	1605.1	2.76	2.71	2.67	1605.1	4.27	4.33	4.35	970.0	1.86	1.77	1.71
2000.1	1665.1	2.61	2.57	2.53	1665.1	4.25	4.29	4.26	1030.0	1.76	1.67	1.60
2080.1	1745.1	2.51	2.45	2.40	1745.1	4.05	4.07	4.01	1090.0	1.63	1.55	1.48
2140.1	1805.1	2.35	2.30	2.26	1805.1	3.90	3.94	3.92	1150.0	1.53	1.44	1.38
2220.1	1885.1	2.18	2.13	2.09	1885.1	3.73	3.74	3.72	1210.0	1.43	1.38	1.28
2280.1	1945.1	2.13	2.07	2.03	1945.1	3.61	3.58	3.52	1270.0	1.34	1.27	1.21
2360.1	2025.1	1.95	1.90	1.86	2025.1	3.36	3.29	3.22	1330.0	1.25	1.18	1.13
2420.1	2085.1	1.79	1.73	1.70	2085.1	3.04	2.99	2.97	1390.0	1.15	1.11	1.09
2500.1	2165.1	1.82	1.78	1.75	2165.1	2.60	2.56	2.57	1450.0	1.12	1.10	1.12
2560.1	2225.1	1.94	1.89	1.85	2225.1	2.36	2.33	2.36	1510.0	1.16	1.19	1.23
2640.1	2305.1	1.95	1.91	1.89	2305.1	2.22	2.25	2.31	1570.0	1.25	1.31	1.36
2700.1	2365.1	1.88	1.87	1.87	2365.1	2.34	2.43	2.51	1630.0	1.35	1.41	1.47
2780.1	2445.1	1.78	1.79	1.81	2445.1	2.75	2.84	2.90	1690.0	1.51	1.58	1.64
2840.1	2505.1	1.83	1.83	1.86	2505.1	3.22	3.27	3.30	1750.0	1.66	1.72	1.79
2920.1	2585.1	1.87	1.90	1.95	2585.1	4.01	3.97	3.90	1810.0	1.79	1.85	1.92
2980.1	2645.1	1.85	1.90	1.97	2645.1	4.42	4.31	4.22	1870.0	1.97	2.04	2.10
3060.1	2725.1	1.95	2.01	2.10	2725.1	4.83	4.67	4.62	1930.0	2.18	2.24	2.30
3120.1	2785.1	2.18	2.25	2.34	2785.1	5.27	5.04	4.98	1990.0	2.36	2.43	2.49
3200.1	2865.1	2.40	2.48	2.59	2865.1	5.41	5.13	4.99	2070.0	2.68	2.75	2.81
3260.1	2925.1	2.48	2.57	2.69	2925.1	5.47	5.23	5.25	2130.0	2.92	3.00	3.07
3340.1	3005.1	2.74	2.82	2.92	3005.1	5.51	5.34	5.46	2210.0	3.24	3.35	3.44
3400.1	3065.1	2.91	2.95	3.01	3065.1	5.36	5.16	5.17	2270.0	3.38	3.54	3.67
3480.1	3145.1	2.94	2.95	2.95	3145.1	5.34	5.14	5.12	2350.0	3.37	3.56	3.75
3540.1	3205.1	3.02	3.07	3.12	3205.1	5.16	5.13	5.34	2410.0	3.06	3.21	3.35

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	8	11	17	13	23	26	39	58	60	74
1	-	27	+0	36	19	36	37	45	32	54	71	63
2	62	71	45	52	70	51	58	61	63	56	72	78
3	>90	>82	65	75	58	69	68	74	>82	78	74	>82
4	>90	>82	>82	>82	>82	80	>82	>82	>82	>82	>82	>82
5	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
6	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
7	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
8	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
9	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
10	---	---	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 2600.1 MHz; 0.00 dBm.
LO IN: 2270.1 MHz; +17.00 dBm
IF OUT: 330 MHz; -7.6 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	18	21	28	23	33	36	50	69	69	>92
1	-	27	+0	37	20	37	38	47	35	56	78	68
2	42	68	35	41	49	42	48	53	53	49	63	72
3	67	61	46	55	40	48	49	55	77	59	57	71
4	>90	68	68	67	79	56	64	60	64	78	78	64
5	>90	84	>92	88	80	84	66	77	71	81	82	91
6	>90	>92	>92	>92	>92	91	92	76	78	71	78	90
7	>90	>92	>92	90	>92	>92	90	88	81	77	80	84
8	>90	>92	>92	>92	>92	>92	>92	>92	89	84	81	81
9	>90	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	88
10	---	---	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 2600.1 MHz; 10.00 dBm.
LO IN: 2270.1 MHz; +17.00 dBm
IF OUT: 330 MHz; 2.28 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.