

Frequency Mixer

HJK-ED13304/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=1900MHz (dB)		
		@LO (dBm)		
		+7	+10	+13
1500.1	3400.1	9.15	8.21	7.83
1540.1	3440.1	9.66	8.57	8.11
1580.1	3480.1	10.06	9.00	8.49
1620.1	3520.1	10.32	9.18	8.51
1660.1	3560.1	10.73	9.37	8.55
1700.1	3600.1	10.41	9.11	8.30
1740.1	3640.1	10.83	9.46	8.64
1780.1	3680.1	10.66	9.37	8.65
1820.1	3720.1	10.52	9.25	8.62
1860.1	3760.1	10.87	9.41	8.65
1900.1	3800.1	10.63	9.25	8.49
1940.1	3840.1	11.30	9.66	8.91
1980.1	3880.1	10.75	9.27	8.69
2020.1	3920.1	10.84	9.34	8.79
2060.1	3960.1	10.68	9.14	8.62
2100.1	4000.1	10.26	8.96	8.58
2140.1	4040.1	10.45	9.04	8.54
2180.1	4080.1	9.82	8.68	8.34
2220.1	4120.1	9.98	8.77	8.38
2260.1	4160.1	9.46	8.44	8.15
2300.1	4200.1	9.44	8.50	8.22
2340.1	4240.1	9.21	8.38	8.13
2380.1	4280.1	9.00	8.32	8.15
2420.1	4320.1	9.05	8.32	8.13
2460.1	4360.1	8.76	8.17	8.02
2490.1	4390.1	8.81	8.17	8.15
2530.1	4430.1	8.88	8.15	8.00
2560.1	4460.1	8.85	8.17	8.09
2630.1	4530.1	9.32	8.39	8.03
2670.1	4570.1	9.60	8.55	8.09
2700.1	4600.1	9.95	8.79	8.21
2740.1	4640.1	10.29	9.08	8.29
2770.1	4670.1	10.67	9.34	8.46
2810.1	4710.1	11.33	9.84	8.89
2840.1	4740.1	11.88	10.16	9.09
2880.1	4780.1	12.65	10.79	9.57
2910.1	4810.1	13.09	11.22	9.78
2950.1	4850.1	13.74	11.70	10.12
2980.1	4880.1	14.29	12.09	10.47

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+7	+10	+13
1500.1	3400.1	14.57	16.83	19.38
1540.1	3440.1	14.06	15.66	17.43
1580.1	3480.1	13.99	15.64	17.52
1620.1	3520.1	14.03	16.17	17.86
1660.1	3560.1	14.50	16.82	18.52
1700.1	3600.1	14.58	16.53	18.60
1740.1	3640.1	15.04	16.40	18.30
1780.1	3680.1	16.00	17.45	19.06
1820.1	3720.1	18.45	19.69	20.45
1860.1	3760.1	22.74	22.87	21.91
1900.1	3800.1	27.68	21.72	22.69
1940.1	3840.1	20.06	19.77	21.21
1980.1	3880.1	20.91	19.57	21.83
2020.1	3920.1	22.41	19.51	22.47
2060.1	3960.1	18.09	18.83	22.43
2100.1	4000.1	15.17	18.52	23.92
2140.1	4040.1	13.66	17.91	23.88
2180.1	4080.1	13.70	18.75	26.31
2220.1	4120.1	13.69	18.68	26.86
2260.1	4160.1	14.11	20.11	28.90
2300.1	4200.1	14.38	20.26	28.89
2340.1	4240.1	14.91	20.78	28.59
2380.1	4280.1	15.28	21.32	28.58
2420.1	4320.1	15.51	21.50	27.78
2460.1	4360.1	15.54	20.93	26.37
2490.1	4390.1	15.44	20.39	15.97
2530.1	4430.1	15.32	19.51	15.50
2560.1	4460.1	15.22	18.98	14.08
2630.1	4530.1	14.47	17.72	13.54
2670.1	4570.1	13.66	16.85	18.14
2700.1	4600.1	13.13	16.12	18.30
2740.1	4640.1	12.08	14.74	17.87
2770.1	4670.1	11.41	13.91	16.89
2810.1	4710.1	10.91	13.07	15.45
2840.1	4740.1	10.40	12.39	14.55
2880.1	4780.1	10.25	11.97	14.13
2910.1	4810.1	9.95	11.29	13.65
2950.1	4850.1	9.47	10.71	12.80
2980.1	4880.1	9.37	10.61	12.43

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+7dBm (dB)		
		@LO (dBm)		
		+7	+10	+13
1500.1	3400.1	0.26	0.23	0.11
1540.1	3440.1	0.45	0.38	0.22
1580.1	3480.1	0.49	0.48	0.38
1620.1	3520.1	0.46	0.48	0.35
1660.1	3560.1	0.38	0.39	0.28
1700.1	3600.1	0.34	0.30	0.21
1740.1	3640.1	0.33	0.28	0.17
1780.1	3680.1	0.36	0.24	0.12
1820.1	3720.1	0.34	0.26	0.13
1860.1	3760.1	0.09	0.24	0.14
1900.1	3800.1	0.15	0.32	0.21
1940.1	3840.1	0.15	0.42	0.26
1980.1	3880.1	0.21	0.42	0.23
2020.1	3920.1	0.21	0.39	0.23
2060.1	3960.1	0.36	0.46	0.23
2100.1	4000.1	0.72	0.48	0.17
2140.1	4040.1	0.83	0.47	0.15
2180.1	4080.1	0.80	0.35	0.11
2220.1	4120.1	0.68	0.32	0.10
2260.1	4160.1	0.56	0.22	0.08
2300.1	4200.1	0.51	0.18	0.06
2340.1	4240.1	0.45	0.17	0.06
2380.1	4280.1	0.44	0.16	0.06
2420.1	4320.1	0.45	0.17	0.07
2460.1	4360.1	0.47	0.19	0.07
2490.1	4390.1	0.48	0.21	-0.05
2530.1	4430.1	0.50	0.25	0.07
2560.1	4460.1	0.51	0.27	-0.18
2630.1	4530.1	0.72	0.42	0.04
2670.1	4570.1	0.75	0.52	0.27
2700.1	4600.1	0.86	0.60	0.34
2740.1	4640.1	0.89	0.81	0.50
2770.1	4670.1	0.87	0.89	0.61
2810.1	4710.1	0.70	0.87	0.72
2840.1	4740.1	0.54	0.82	0.80
2880.1	4780.1	0.31	0.81	0.85
2910.1	4810.1	0.10	0.71	0.85
2950.1	4850.1	-0.28	0.48	0.84
2980.1	4880.1	-0.53	0.36	0.77

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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)=3120.1001MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2440MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=3340.1001MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+10			+10			+10
580.0	2540.1	12.14	10.1	2450.1	45.07	770.0	2570.1	12.10
549.5	2570.6	11.02	70.1	2510.1	25.80	750.0	2590.1	11.32
518.9	2601.2	10.21	130.1	2570.1	19.59	730.0	2610.1	10.82
488.4	2631.7	10.04	190.1	2630.1	15.17	710.0	2630.1	10.71
457.9	2662.2	9.38	250.1	2690.1	11.65	690.0	2650.1	10.26
427.3	2692.8	8.77	310.1	2750.1	9.94	670.0	2670.1	9.62
396.8	2723.3	8.76	370.1	2810.1	8.87	650.0	2690.1	9.11
366.2	2753.9	8.78	430.1	2870.1	8.28	630.0	2710.1	8.99
335.7	2784.4	8.85	490.1	2930.1	7.99	610.0	2730.1	8.88
305.2	2814.9	9.23	550.1	2990.1	7.74	590.0	2750.1	8.66
274.6	2845.5	9.46	610.1	3050.1	7.71	570.0	2770.1	8.50
244.1	2876.0	9.58	670.1	3110.1	7.79	550.0	2790.1	8.46
213.6	2906.5	10.04	730.1	3170.1	8.05	530.0	2810.1	8.49
183.0	2937.1	10.62	790.1	3230.1	8.29	510.0	2830.1	8.53
152.5	2967.6	11.42	850.1	3290.1	8.61	490.0	2850.1	8.29
122.0	2998.1	12.81	910.1	3350.1	9.06	470.0	2870.1	8.10
91.4	3028.7	14.77	970.1	3410.1	9.00	450.0	2890.1	7.95
60.9	3059.2	17.75	1030.1	3470.1	9.27	430.0	2910.1	7.85
30.4	3089.7	23.46	1090.1	3530.1	9.12	410.0	2930.1	7.89
10.0	3130.1	33.13	1150.1	3590.1	8.88	390.0	2950.1	7.85
100.5	3220.6	14.14	1210.1	3650.1	9.08	370.0	2970.1	7.93
191.1	3311.2	9.97	1270.1	3710.1	9.05	350.0	2990.1	7.97
281.6	3401.7	8.29	1330.1	3770.1	9.48	330.0	3010.1	8.08
372.1	3492.2	7.67	1390.1	3830.1	9.70	310.0	3030.1	8.20
462.7	3582.8	7.55	1470.1	3910.1	9.54	290.0	3050.1	8.29
553.2	3673.3	7.71	1530.1	3970.1	9.27	270.0	3070.1	8.55
643.8	3763.9	7.91	1610.1	4050.1	8.93	250.0	3090.1	8.71
734.3	3854.4	8.42	1670.1	4110.1	8.66	230.0	3110.1	9.05
824.8	3944.9	8.64	1750.1	4190.1	8.46	210.0	3130.1	9.30
915.4	4035.5	8.63	1810.1	4250.1	8.38	190.0	3150.1	9.79
1005.9	4126.0	8.64	1890.1	4330.1	8.35	170.0	3170.1	10.32
1096.4	4216.5	8.31	1950.1	4390.1	8.20	150.0	3190.1	11.02
1156.8	4276.9	8.16	2030.1	4470.1	8.28	130.0	3210.1	11.85
1247.3	4367.4	8.30	2090.1	4530.1	8.53	110.0	3230.1	13.01
1307.7	4427.8	8.48	2170.1	4610.1	8.84	90.0	3250.1	14.64
1398.2	4518.3	8.97	2230.1	4670.1	9.18	70.0	3270.1	16.58
1458.6	4578.7	9.30	2310.1	4750.1	9.88	50.0	3290.1	19.39
1549.1	4669.2	10.04	2370.1	4810.1	10.38	40.0	3300.1	21.23
1609.5	4729.6	10.79	2450.1	4890.1	11.29	20.0	3320.1	27.20
1700.0	4820.1	11.71	2510.1	4950.1	12.25	10.0	3330.1	33.40

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+7	+10	+13	+7	+10	+13
3400.1	54.49	47.11	42.85	26.28	27.51	28.89
3440.1	46.16	51.13	45.97	26.51	27.61	28.96
3480.1	45.03	47.77	43.51	26.97	28.27	29.68
3520.1	43.72	44.48	41.84	27.17	28.61	30.15
3560.1	41.18	40.96	39.48	27.29	28.55	30.10
3600.1	39.37	38.12	37.13	28.12	29.25	30.63
3640.1	36.94	35.31	34.40	28.46	29.62	30.90
3680.1	34.28	32.68	31.88	28.96	30.16	31.56
3720.1	31.57	29.58	28.54	29.59	30.82	32.23
3760.1	29.17	26.94	25.42	30.35	31.80	33.32
3800.1	26.57	24.41	23.36	31.38	32.70	34.09
3840.1	26.74	24.75	24.43	30.64	31.44	32.71
3880.1	28.33	27.71	28.39	29.74	30.57	31.78
3920.1	31.26	31.28	32.66	29.24	29.82	30.85
3960.1	34.83	35.70	36.58	29.16	29.80	30.54
4000.1	39.31	39.07	37.40	29.50	30.05	30.66
4040.1	46.78	44.15	39.95	29.44	29.78	30.20
4080.1	52.64	47.21	41.63	29.89	30.11	30.26
4120.1	42.64	42.91	40.57	29.55	29.30	29.19
4160.1	38.65	38.70	37.98	29.53	29.11	29.07
4200.1	36.00	36.13	36.03	28.66	28.27	28.22
4240.1	34.54	34.45	34.53	28.17	27.87	28.07
4280.1	33.57	33.50	33.52	27.49	27.37	27.54
4320.1	33.23	33.14	33.06	27.14	27.19	27.50
4360.1	32.83	32.80	32.88	27.21	27.40	27.98
4390.1	32.40	32.68	32.77	27.13	27.51	28.05
4430.1	32.02	32.48	32.86	27.56	28.13	28.88
4460.1	31.82	32.58	32.79	27.88	28.60	29.39
4530.1	32.62	33.15	33.44	29.52	30.33	31.27
4570.1	32.86	33.31	33.53	30.42	31.54	32.40
4600.1	33.02	33.37	33.76	31.29	32.53	33.74
4640.1	32.90	33.06	33.12	32.23	33.68	34.95
4670.1	32.43	32.60	32.77	33.09	34.76	36.18
4710.1	32.69	32.94	33.06	33.92	35.82	37.43
4740.1	33.46	33.54	33.84	34.47	36.55	38.64
4780.1	34.53	34.29	34.51	35.28	37.73	40.34
4810.1	35.03	34.91	34.68	35.49	38.17	40.99
4850.1	35.64	35.50	35.22	35.51	38.25	41.25
4880.1	35.82	35.54	35.19	35.49	38.11	40.82

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+7	+10	+13
1500.1	3400.1	42.73	43.16	44.31
1540.1	3440.1	43.61	43.55	43.18
1580.1	3480.1	42.63	39.93	38.40
1620.1	3520.1	41.42	37.96	36.57
1660.1	3560.1	40.86	38.95	38.31
1700.1	3600.1	40.00	39.39	38.95
1740.1	3640.1	38.48	37.54	37.42
1780.1	3680.1	36.05	34.92	35.51
1820.1	3720.1	35.01	33.54	33.56
1860.1	3760.1	33.85	31.95	31.04
1900.1	3800.1	34.19	31.48	29.91
1940.1	3840.1	34.67	31.54	30.09
1980.1	3880.1	33.93	31.68	30.43
2020.1	3920.1	34.33	32.32	31.11
2060.1	3960.1	34.59	32.85	31.96
2100.1	4000.1	34.30	33.51	32.98
2140.1	4040.1	33.08	33.45	33.55
2180.1	4080.1	31.52	32.61	33.52
2220.1	4120.1	29.51	31.19	32.75
2260.1	4160.1	28.66	30.49	32.13
2300.1	4200.1	28.59	30.42	32.08
2340.1	4240.1	28.63	30.25	31.82
2380.1	4280.1	28.68	30.09	31.31
2420.1	4320.1	28.73	30.19	31.47
2460.1	4360.1	28.96	30.42	31.93
2490.1	4390.1	28.59	29.88	31.33
2530.1	4430.1	28.06	28.75	29.65
2560.1	4460.1	28.06	28.30	29.09
2630.1	4530.1	29.00	28.33	28.61
2670.1	4570.1	29.84	28.95	28.84
2700.1	4600.1	30.80	29.53	29.31
2740.1	4640.1	32.25	30.54	30.07
2770.1	4670.1	33.33	31.42	30.92
2810.1	4710.1	35.65	33.42	32.95
2840.1	4740.1	38.39	35.56	35.22
2880.1	4780.1	40.63	37.81	37.70
2910.1	4810.1	40.13	37.66	37.03
2950.1	4850.1	39.01	36.50	35.33
2980.1	4880.1	38.78	36.35	34.91

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=4340MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+7	+10	+13		+7	+10	+13		+7	+10	+13
1500.1	3400.1	2.00	1.75	1.68	3400.1	4.96	5.34	5.83	210.1	4.14	3.79	3.70
1540.1	3440.1	2.23	1.86	1.70	3440.1	5.46	5.81	6.21	290.1	2.29	2.27	2.36
1580.1	3480.1	2.41	2.03	1.86	3480.1	5.99	6.37	6.78	370.1	1.45	1.58	1.76
1620.1	3520.1	2.70	2.30	2.13	3520.1	6.51	6.81	7.17	450.1	1.12	1.37	1.57
1660.1	3560.1	2.92	2.42	2.18	3560.1	6.86	7.08	7.28	530.1	1.35	1.48	1.62
1700.1	3600.1	2.89	2.41	2.18	3600.1	7.25	7.44	7.66	610.1	1.67	1.73	1.82
1740.1	3640.1	3.07	2.57	2.32	3640.1	7.31	7.31	7.28	690.1	1.97	1.97	2.03
1780.1	3680.1	3.03	2.62	2.42	3680.1	7.50	7.38	7.28	770.1	2.24	2.15	2.17
1820.1	3720.1	2.92	2.50	2.32	3720.1	7.28	7.00	6.71	850.1	2.45	2.30	2.28
1860.1	3760.1	3.00	2.48	2.26	3760.1	7.17	6.68	6.26	930.1	2.59	2.37	2.31
1900.1	3800.1	2.95	2.46	2.27	3800.1	6.83	6.32	5.95	1010.1	2.67	2.41	2.33
1940.1	3840.1	3.00	2.40	2.24	3840.1	6.89	6.30	5.83	1090.1	2.67	2.39	2.28
1980.1	3880.1	2.72	2.22	2.13	3880.1	7.28	6.63	6.07	1170.1	2.65	2.35	2.23
2020.1	3920.1	2.68	2.15	2.04	3920.1	7.31	6.51	5.83	1250.1	2.61	2.30	2.16
2060.1	3960.1	2.63	2.09	2.00	3960.1	7.34	6.46	5.65	1330.1	2.57	2.25	2.10
2100.1	4000.1	2.48	2.01	1.96	4000.1	7.02	6.09	5.25	1410.1	2.51	2.18	2.02
2140.1	4040.1	2.48	1.98	1.91	4040.1	6.46	5.49	4.62	1490.1	2.46	2.11	1.92
2180.1	4080.1	2.32	1.90	1.87	4080.1	5.83	4.88	4.06	1570.1	2.41	2.08	1.91
2220.1	4120.1	2.30	1.87	1.81	4120.1	5.04	4.12	3.36	1650.1	2.27	1.96	1.79
2260.1	4160.1	2.17	1.81	1.78	4160.1	4.22	3.41	2.76	1730.1	2.17	1.87	1.71
2300.1	4200.1	2.09	1.76	1.73	4200.1	3.48	2.77	2.21	1810.1	2.06	1.77	1.63
2340.1	4240.1	2.01	1.73	1.71	4240.1	2.71	2.13	1.70	1890.1	1.97	1.69	1.57
2380.1	4280.1	1.93	1.68	1.65	4280.1	2.08	1.64	1.32	1970.1	1.89	1.60	1.48
2420.1	4320.1	1.89	1.64	1.60	4320.1	1.57	1.25	1.10	2050.1	1.81	1.53	1.41
2460.1	4360.1	1.87	1.61	1.53	4360.1	1.19	1.17	1.36	2130.1	1.71	1.45	1.35
2490.1	4390.1	1.86	1.58	1.49	4390.1	1.17	1.39	1.64	2210.1	1.64	1.40	1.32
2530.1	4430.1	1.90	1.59	1.46	4430.1	1.50	1.82	2.12	2290.1	1.59	1.38	1.34
2560.1	4460.1	1.93	1.62	1.49	4460.1	1.82	2.18	2.48	2370.1	1.59	1.42	1.41
2630.1	4530.1	2.12	1.72	1.49	4530.1	2.76	3.26	3.62	2530.1	1.65	1.57	1.62
2670.1	4570.1	2.22	1.80	1.51	4570.1	3.43	4.00	4.50	2610.1	1.74	1.68	1.74
2700.1	4600.1	2.35	1.88	1.56	4600.1	3.99	4.61	5.16	2670.1	1.84	1.77	1.82
2740.1	4640.1	2.59	2.09	1.70	4640.1	4.74	5.39	5.95	2750.1	2.06	1.96	1.99
2770.1	4670.1	2.73	2.20	1.80	4670.1	5.42	6.13	6.73	2810.1	2.22	2.18	2.20
2810.1	4710.1	3.00	2.42	2.02	4710.1	6.24	6.94	7.60	2890.1	2.42	2.32	2.33
2840.1	4740.1	3.32	2.65	2.19	4740.1	6.86	7.60	8.20	2950.1	2.62	2.52	2.52
2880.1	4780.1	3.52	2.80	2.30	4780.1	7.90	8.68	9.38	3030.1	2.86	2.72	2.70
2910.1	4810.1	3.72	2.97	2.39	4810.1	8.47	9.28	9.96	3090.1	3.20	3.02	2.96
2950.1	4850.1	3.99	3.16	2.52	4850.1	9.43	10.19	10.75	3170.1	3.55	3.33	3.24
2980.1	4880.1	4.13	3.25	2.59	4880.1	10.31	11.09	11.77	3230.1	3.83	3.54	3.40

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	1	1	35	21	59	---	---	---	---	---
1	-	23	+0	38	25	38	50	>74	---	---	---	---
2	78	46	54	64	65	49	70	>74	---	---	---	---
3	>90	71	60	>74	>74	>74	>74	>74	>74	---	---	---
4	>90	>74	>74	>74	>74	>74	>74	>74	>74	---	---	---
5	>90	>74	>74	>74	>74	>74	>74	>74	>74	>74	---	---
6	>90	>74	>74	>74	>74	>74	>74	>74	>74	>74	---	---
7	>90	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74	---
8	>90	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74
9	>90	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74
10	---	---	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 2440 MHz; -8.00 dBm.
LO IN: 4340 MHz; +10.00 dBm
IF OUT: 1900 MHz; -16.36 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	11	11	44	32	69	---	---	---	---	---
1	-	22	+0	38	25	38	51	79	---	---	---	---
2	58	37	45	54	56	40	61	74	---	---	---	---
3	>90	51	41	58	56	67	57	79	>84	---	---	---
4	>90	70	67	72	65	76	>84	>84	>84	---	---	---
5	>90	>84	83	83	72	>84	>84	83	>84	>84	---	---
6	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	---	---
7	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	---
8	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
9	>90	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
10	---	---	>84	>84	>84	>84	>84	>84	>84	>84	>84	>84
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 2440 MHz; 2.00 dBm.
LO IN: 4340 MHz; +10.00 dBm
IF OUT: 1900 MHz; -6.5 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.