Frequency Mixer ZX05-43+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB) @LO (dBm)		
		+4	+7	+10
570.0	600.0	23.98	16.31	10.58
670.0	700.0	12.96	8.91	7.39
770.0	800.0	8.24	6.80	6.23
870.0	900.0	7.39	6.58	6.10
970.0	1000.0	7.27	6.66	6.16
1070.0	1100.0	6.85	6.39	6.08
1170.0	1200.0	6.53	6.31	6.18
1270.0	1300.0	6.56	6.40	6.28
1370.0	1400.0	6.44	6.24	6.18
1470.0	1500.0	6.31	6.03	5.98
1570.0	1600.0	6.38	6.10	5.97
1670.0	1700.0	6.48	6.18	6.05
1770.0	1800.0	6.67	6.35	6.22
1870.0	1900.0	6.66	6.38	6.27
1970.0	2000.0	6.70	6.46	6.34
2070.0	2100.0	6.65	6.39	6.26
2170.0	2200.0	6.76	6.41	6.23
2270.0	2300.0	6.73	6.30	6.11
2370.0	2400.0	6.10	5.77	5.64
2470.0	2500.0	6.75	6.16	5.86
2570.0	2600.0	6.74	6.30	6.01
2670.0	2700.0	6.11	5.64	5.39
2770.0	2800.0	5.87	5.42	5.19
2870.0	2900.0	5.59	5.17	5.04
2970.0	3000.0	5.40	5.14	5.07
3070.0	3100.0	5.39	5.22	5.20
3170.0	3200.0	5.44	5.30	5.31
3270.0	3300.0	5.58	5.43	5.43
3370.0	3400.0	5.85	5.69	5.67
3470.0	3500.0	6.25	5.96	5.87
3550.0	3580.0	6.60	6.16	5.97
3650.0	3680.0	6.77	6.39	6.24
3730.0	3760.0	6.87	6.41	6.25
3830.0	3860.0	7.46	6.80	6.47
3910.0	3940.0	7.90	7.25	6.91
4010.0	4040.0	8.28	7.42	7.10
4090.0	4120.0	8.38	7.48	7.17
4190.0	4220.0	8.66	7.59	7.25
4270.0	4300.0	8.74	7.45	7.08
4370.0	4400.0	10.24	8.08	7.52

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm) @LO (dBm)		
		+4	+7	+10
570.0	600.0	-8.64	-4.33	3.40
670.0	700.0	-2.95	2.21	6.33
770.0	800.0	0.44	5.75	11.26
870.0	900.0	3.97	6.49	9.41
970.0	1000.0	4.25	5.47	7.40
1070.0	1100.0	6.18	8.23	10.02
1170.0	1200.0	7.86	9.75	10.86
1270.0	1300.0	9.31	9.66	11.43
1370.0	1400.0	14.24	11.48	11.29
1470.0	1500.0	11.04	9.18	13.40
1570.0	1600.0	16.18	16.79	15.37
1670.0	1700.0	14.14	14.68	16.27
1770.0	1800.0	13.39	14.21	16.98
1870.0	1900.0	12.98	18.24	20.86
1970.0	2000.0	17.77	16.50	16.60
2070.0	2100.0	14.58	15.00	15.13
2170.0	2200.0	13.34	12.55	12.82
2270.0	2300.0	10.32	11.83	12.93
2370.0	2400.0	9.97	10.29	12.04
2470.0	2500.0	14.78	12.02	10.76
2570.0	2600.0	7.25	7.05	8.31
2670.0	2700.0	4.69	5.34	5.78
2770.0	2800.0	3.67	5.22	7.47
2870.0	2900.0	6.23	10.73	12.04
2970.0	3000.0	9.94	11.81	12.51
3070.0	3100.0	11.19	13.35	14.32
3170.0	3200.0	12.90	14.62	16.03
3270.0	3300.0	13.62	16.26	17.39
3370.0	3400.0	14.50	15.76	17.03
3470.0	3500.0	15.22	13.85	15.42
3550.0	3580.0	15.76	13.91	13.92
3650.0	3680.0	16.67	15.38	13.37
3730.0	3760.0	14.79	15.24	15.99
3830.0	3860.0	19.92	17.55	17.08
3910.0	3940.0	11.50	13.27	14.61
4010.0	4040.0	12.53	14.58	15.30
4090.0	4120.0	12.06	14.48	16.36
4190.0	4220.0	11.76	14.13	17.74
4270.0	4300.0	13.77	17.36	17.70
4370.0	4400.0	10.99	19.13	20.24

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+1dBm (dB) @LO (dBm)		
		+4	+7	+10
570.0	600.0	-8.13	-3.38	-0.08
670.0	700.0	0.06	1.48	0.94
770.0	800.0	2.93	2.21	1.68
870.0	900.0	2.38	2.16	1.90
970.0	1000.0	1.80	1.68	1.59
1070.0	1100.0	1.63	1.38	1.15
1170.0	1200.0	1.23	0.96	0.76
1270.0	1300.0	0.76	0.55	0.48
1370.0	1400.0	0.67	0.44	0.32
1470.0	1500.0	0.68	0.54	0.40
1570.0	1600.0	0.58	0.43	0.34
1670.0	1700.0	0.61	0.43	0.32
1770.0	1800.0	0.58	0.35	0.20
1870.0	1900.0	0.56	0.30	0.17
1970.0	2000.0	0.49	0.28	0.18
2070.0	2100.0	0.55	0.34	0.21
2170.0	2200.0	0.63	0.43	0.31
2270.0	2300.0	0.75	0.56	0.40
2370.0	2400.0	0.88	0.61	0.44
2470.0	2500.0	0.92	0.67	0.49
2570.0	2600.0	1.09	0.93	0.81
2670.0	2700.0	1.29	1.16	1.08
2770.0	2800.0	1.43	1.15	0.97
2870.0	2900.0	1.31	0.95	0.73
2970.0	3000.0	1.07	0.67	0.54
3070.0	3100.0	0.86	0.47	0.37
3170.0	3200.0	0.78	0.37	0.26
3270.0	3300.0	0.91	0.45	0.28
3370.0	3400.0	0.94	0.50	0.30
3470.0	3500.0	0.88	0.53	0.35
3550.0	3580.0	0.91	0.62	0.43
3650.0	3680.0	0.66	0.43	0.30
3730.0	3760.0	0.69	0.46	0.33
3830.0	3860.0	0.79	0.58	0.46
3910.0	3940.0	0.55	0.44	0.38
4010.0	4040.0	0.47	0.39	0.35
4090.0	4120.0	0.40	0.30	0.25
4190.0	4220.0	0.45	0.32	0.24
4270.0	4300.0	0.49	0.43	0.28
4370.0	4400.0	0.07	0.39	0.28

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IF/RF MICROWAVE COMPONENTS

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2475MHz (dB) @LO (dBm) +7
1390.0	1085.0	10.75
1314.4	1160.6	9.36
1238.8	1236.2	7.61
1163.2	1311.8	6.80
1087.5	1387.5	7.01
1011.9	1463.1	7.66
936.3	1538.7	8.50
860.7	1614.3	9.24
785.1	1689.9	8.73
709.5	1765.5	7.63
633.8	1841.2	7.01
558.2	1916.8	6.59
482.6	1992.4	6.34
407.0	2068.0	5.98
331.4	2143.6	5.80
255.8	2219.2	5.52
180.1	2294.9	5.44
104.5	2370.5	5.64
28.9	2446.1	6.07
52.2	2527.2	6.32
136.5	2611.5	6.87
220.8	2695.8	7.00
305.1	2780.1	6.92
389.5	2864.5	6.52
473.8	2948.8	6.35
537.0	3012.0	6.47
621.4	3096.4	6.59
684.6	3159.6	6.57
768.9	3243.9	6.53
832.2	3307.2	6.69
916.5	3391.5	6.62
979.7	3454.7	6.62
1064.1	3539.1	6.79
1127.3	3602.3	6.91
1211.6	3686.6	7.26
1274.9	3749.9	7.50
1359.2	3834.2	8.02
1422.4	3897.4	8.43
1506.8	3981.8	9.41
1570.0	4045.0	10.52

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=739.9MHz (dB) @LO (dBm) +7
10.1	750.0	7.72
50.1	790.0	7.07
90.1	830.0	6.74
130.1	870.0	6.74
170.1	910.0	6.78
210.1	950.0	6.90
250.1	990.0	6.87
290.1	1030.0	6.79
330.1	1070.0	6.68
370.1	1110.0	6.55
410.1	1150.0	6.49
450.1	1190.0	6.57
490.1	1230.0	6.49
530.1	1270.0	6.39
570.1	1310.0	6.39
610.1	1350.0	6.52
650.1	1390.0	6.59
690.1	1430.0	6.65
730.1	1470.0	6.81
770.1	1510.0	6.88
810.1	1550.0	7.05
850.1	1590.0	7.23
890.1	1630.0	7.25
930.1	1670.0	7.55
970.1	1710.0	7.59
1010.1	1750.0	7.51
1050.1	1790.0	7.54
1090.1	1830.0	7.67
1130.1	1870.0	7.81
1170.1	1910.0	7.72
1210.1	1950.0	7.72
1250.1	1990.0	7.95
1290.1	2030.0	7.97
1330.1	2070.0	8.14
1370.1	2110.0	8.50
1410.1	2150.0	8.43
1450.1	2190.0	8.63
1510.1	2250.0	8.84
1550.1	2290.0	9.40
1610.1	2350.0	10.20

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=4210MHz (dB) @LO (dBm) +7
1410.0	2800.0	11.06
1370.0	2840.0	10.71
1330.0	2880.0	10.26
1290.0	2920.0	9.82
1250.0	2960.0	9.69
1210.0	3000.0	9.88
1170.0	3040.0	9.63
1130.0	3080.0	9.37
1090.0	3120.0	9.04
1050.0	3160.0	9.02
1010.0	3200.0	8.81
970.0	3240.0	8.83
930.0	3280.0	8.88
890.0	3320.0	8.72
850.0	3360.0	8.72
810.0	3400.0	8.69
770.0	3440.0	8.84
730.0	3480.0	9.14
690.0	3520.0	9.06
650.0	3560.0	9.19
610.0	3600.0	9.19
570.0	3640.0	9.13
530.0	3680.0	9.03
490.0	3720.0	8.92
450.0	3760.0	8.90
430.0	3780.0	8.86
390.0	3820.0	8.58
370.0	3840.0	8.49
330.0	3880.0	8.29
310.0	3900.0	8.12
270.0	3940.0	7.95
250.0	3960.0	7.83
210.0	4000.0	7.58
190.0	4020.0	7.55
150.0	4060.0	7.54
130.0	4080.0	7.52
90.0	4120.0	7.50
70.0	4140.0	7.56
30.0	4180.0	7.54
10.0	4200.0	7.76

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB) @LO (dBm)			LO-IF ISOLATION (dB) @LO (dBm)		
	+4	+7	+10	+4	+7	+10
600.0	58.55	58.29	57.35	28.34	28.38	28.54
700.0	52.30	52.65	46.08	25.70	25.88	26.74
800.0	43.48	40.85	40.22	23.49	25.00	27.16
900.0	37.65	37.94	38.49	23.44	25.83	28.30
1000.0	41.15	41.71	42.21	24.73	27.26	29.55
1100.0	45.37	44.93	44.32	26.34	28.93	31.15
1200.0	41.93	40.69	39.62	28.12	30.39	31.62
1300.0	39.18	36.90	35.47	29.97	31.92	32.43
1400.0	36.89	34.53	33.17	31.14	33.49	34.99
1500.0	35.19	33.19	31.45	30.46	33.37	36.32
1600.0	34.96	33.39	32.27	26.25	27.95	29.43
1700.0	35.70	34.32	33.47	23.47	24.66	25.31
1800.0	36.25	35.29	34.10	18.89	20.05	20.58
1900.0	35.11	33.92	32.99	14.41	15.62	16.43
2000.0	34.96	34.15	33.44	11.12	12.57	13.70
2100.0	35.20	34.20	33.30	10.05	11.68	13.04
2200.0	35.84	34.60	33.47	10.73	12.37	13.91
2300.0	34.81	33.44	32.32	12.00	13.72	15.44
2400.0	33.84	31.95	30.70	13.42	15.14	16.94
2500.0	35.16	33.42	32.14	14.88	16.53	18.22
2600.0	32.58	29.90	28.43	16.33	17.97	19.30
2700.0	32.85	30.45	28.41	17.65	18.71	19.53
2800.0	31.95	29.02	26.43	19.10	19.29	19.13
2900.0	32.28	29.17	26.23	20.57	20.20	19.63
3000.0	30.11	27.69	25.50	22.86	21.97	20.80
3100.0	28.54	26.30	24.67	25.89	23.92	22.59
3200.0	27.72	25.87	24.42	28.22	26.57	25.42
3300.0	28.06	26.50	25.46	25.50	24.71	24.27
3400.0	27.49	26.36	25.60	25.02	25.41	25.84
3500.0	26.43	25.71	24.92	23.13	23.43	23.89
3580.0	25.76	25.33	24.67	21.34	21.77	22.13
3680.0	25.60	25.28	24.59	18.98	19.56	20.07
3760.0	25.86	25.44	24.76	18.21	18.81	19.46
3860.0	26.73	26.32	25.62	19.33	19.71	20.44
3940.0	27.05	26.54	25.69	19.81	20.31	21.07
4040.0	27.51	26.96	26.02	17.33	17.99	19.15
4120.0	27.44	26.86	25.92	16.07	16.77	17.86
4220.0	27.85	26.99	26.06	15.28	15.82	16.93
4300.0	28.92	28.12	26.31	14.91	15.53	16.33
4400.0	29.84	28.81	27.09	14.66	15.08	15.75

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB) @LO (dBm)		
		+4	+7	+10
570.0	600.0	28.29	26.77	22.36
670.0	700.0	24.39	21.45	17.14
770.0	800.0	17.80	14.81	13.70
870.0	900.0	13.45	12.51	11.99
970.0	1000.0	14.01	13.25	12.71
1070.0	1100.0	17.02	16.20	15.67
1170.0	1200.0	19.97	19.46	19.14
1270.0	1300.0	22.98	22.66	22.25
1370.0	1400.0	24.53	24.70	25.02
1470.0	1500.0	25.16	25.05	25.29
1570.0	1600.0	25.66	26.04	26.28
1670.0	1700.0	24.69	24.89	25.09
1770.0	1800.0	26.30	26.41	26.25
1870.0	1900.0	29.19	28.87	28.72
1970.0	2000.0	34.38	34.11	33.91
2070.0	2100.0	39.86	39.08	38.87
2170.0	2200.0	37.73	37.50	37.69
2270.0	2300.0	39.51	39.83	40.64
2370.0	2400.0	39.74	39.45	39.60
2470.0	2500.0	38.99	39.57	40.17
2570.0	2600.0	34.55	34.32	34.25
2670.0	2700.0	31.20	30.45	29.91
2770.0	2800.0	28.35	28.02	27.72
2870.0	2900.0	26.48	25.65	25.60
2970.0	3000.0	26.00	25.90	26.16
3070.0	3100.0	24.73	24.30	24.42
3170.0	3200.0	24.59	23.84	23.52
3270.0	3300.0	31.37	29.55	28.22
3370.0	3400.0	20.20	19.43	19.05
3470.0	3500.0	20.05	19.42	19.06
3550.0	3580.0	19.89	19.26	19.02
3650.0	3680.0	22.44	21.34	20.96
3730.0	3760.0	22.67	21.25	20.70
3830.0	3860.0	25.15	24.06	23.68
3910.0	3940.0	32.64	30.62	29.53
4010.0	4040.0	42.26	42.88	40.86
4090.0	4120.0	30.51	28.99	27.82
4190.0	4220.0	26.67	24.50	23.16
4270.0	4300.0	26.35	23.78	22.49
4370.0	4400.0	28.74	27.51	26.94

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Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1) @LO (dBm)		
		+4	+7	+10
570.0	600.0	12.99	8.68	5.28
670.0	700.0	4.46	3.25	3.18
770.0	800.0	2.34	2.10	1.97
870.0	900.0	1.93	1.70	1.56
970.0	1000.0	2.56	2.35	2.16
1070.0	1100.0	3.10	2.93	2.80
1170.0	1200.0	3.29	3.21	3.15
1270.0	1300.0	3.42	3.33	3.29
1370.0	1400.0	3.46	3.20	3.08
1470.0	1500.0	3.35	3.01	2.72
1570.0	1600.0	3.19	2.88	2.66
1670.0	1700.0	3.23	2.84	2.53
1770.0	1800.0	3.27	2.87	2.65
1870.0	1900.0	3.22	2.92	2.73
1970.0	2000.0	3.31	3.05	2.88
2070.0	2100.0	3.29	3.01	2.82
2170.0	2200.0	3.50	3.20	2.99
2270.0	2300.0	3.38	3.07	2.86
2370.0	2400.0	2.58	2.27	2.08
2470.0	2500.0	3.00	2.70	2.46
2570.0	2600.0	2.87	2.56	2.33
2670.0	2700.0	2.43	2.17	1.95
2770.0	2800.0	1.94	1.67	1.47
2870.0	2900.0	1.56	1.39	1.35
2970.0	3000.0	1.45	1.43	1.44
3070.0	3100.0	1.50	1.54	1.60
3170.0	3200.0	1.52	1.57	1.64
3270.0	3300.0	1.56	1.55	1.59
3370.0	3400.0	1.66	1.57	1.55
3470.0	3500.0	2.07	1.90	1.83
3550.0	3580.0	2.57	2.33	2.18
3650.0	3680.0	3.00	2.75	2.60
3730.0	3760.0	3.23	2.92	2.70
3830.0	3860.0	3.63	3.24	2.95
3910.0	3940.0	4.02	3.63	3.35
4010.0	4040.0	4.41	3.88	3.57
4090.0	4120.0	4.52	3.93	3.60
4190.0	4220.0	4.64	3.93	3.57
4270.0	4300.0	4.35	3.54	3.14
4370.0	4400.0	4.98	3.94	3.57

LO (MHz)	LO VSWR (:1) @LO (dBm)		
	+4	+7	+10
600.0	35.46	34.75	32.18
700.0	26.74	22.29	15.13
800.0	12.35	8.35	7.56
900.0	4.32	4.35	5.02
1000.0	2.26	2.81	3.58
1100.0	1.37	1.90	2.55
1200.0	1.11	1.36	1.86
1300.0	1.41	1.06	1.49
1400.0	1.57	1.18	1.47
1500.0	1.67	1.48	1.78
1600.0	1.74	1.78	2.18
1700.0	1.77	2.03	2.56
1800.0	1.67	2.06	2.64
1900.0	1.45	1.97	2.64
2000.0	1.36	1.92	2.58
2100.0	1.42	1.89	2.52
2200.0	1.62	1.94	2.48
2300.0	1.89	2.01	2.42
2400.0	2.13	2.08	2.35
2500.0	2.29	2.06	2.22
2600.0	2.35	2.00	2.03
2700.0	2.25	1.74	1.74
2800.0	2.12	1.44	1.34
2900.0	2.10	1.38	1.21
3000.0	2.09	1.34	1.18
3100.0	1.91	1.24	1.22
3200.0	1.72	1.15	1.32
3300.0	1.57	1.15	1.44
3400.0	1.51	1.25	1.57
3500.0	1.57	1.42	1.72
3580.0	1.69	1.57	1.84
3680.0	1.89	1.76	2.01
3760.0	2.09	1.91	2.12
3860.0	2.55	2.19	2.29
3940.0	2.99	2.45	2.44
4040.0	3.86	2.94	2.70
4120.0	4.52	3.34	2.92
4220.0	5.65	3.82	3.05
4300.0	6.51	4.16	3.06
4400.0	8.08	5.20	3.45

IF (OUT) (MHz)	IF VSWR @LO=4200MHz (:1) @LO (dBm)		
	+4	+7	+10
10.0	1.09	1.26	1.49
49.7	1.16	1.26	1.48
89.5	1.24	1.29	1.49
129.2	1.33	1.32	1.49
168.9	1.44	1.36	1.51
208.7	1.56	1.40	1.51
248.4	1.72	1.48	1.53
288.1	1.92	1.57	1.57
327.9	2.11	1.68	1.61
367.6	2.35	1.83	1.71
407.3	2.58	1.97	1.79
447.1	2.82	2.13	1.89
486.8	3.09	2.32	2.03
526.5	3.33	2.49	2.14
566.3	3.61	2.69	2.29
606.0	3.86	2.86	2.40
645.7	4.13	3.05	2.55
685.5	4.40	3.22	2.68
725.2	4.64	3.40	2.82
764.9	4.84	3.56	2.98
804.7	5.02	3.70	3.12
844.4	5.22	3.92	3.30
884.1	5.31	3.96	3.35
923.9	5.52	4.15	3.52
963.6	5.52	4.20	3.56
1003.3	5.59	4.24	3.64
1043.1	5.68	4.37	3.75
1082.8	5.61	4.36	3.77
1122.5	5.77	4.51	3.95
1162.3	5.65	4.47	3.95
1202.0	5.68	4.56	4.11
1241.7	5.65	4.59	4.21
1281.5	5.47	4.56	4.28
1321.2	5.49	4.68	4.48
1360.9	5.23	4.61	4.55
1380.8	5.22	4.73	4.73
1420.5	5.28	4.96	5.04
1440.4	5.22	5.00	5.16
1480.1	5.22	5.25	5.54
1500.0	5.30	5.44	5.79

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Harmonics Tables

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	+11	9	9	30	26	42	36	45	41	---
1	-	33	+0	41	18	31	33	>70	48	>70	55	60
2	>90	55	56	61	53	69	54	61	67	>70	>70	>70
3	>90	65	63	>70	63	>70	67	>70	69	>70	>70	>70
4	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
5	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
6	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
7	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
8	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
9	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
10	---	---	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: **RF IN: 2475 MHz; -14.00 dBm.**
LO IN: 2505 MHz; +7.00 dBm
IF OUT: 30 MHz; -20.26 dBm

RF HARMONICS ORDER	(-dBm)	(-dBc)										
0	-	-	+1	19	19	47	38	53	50	57	53	---
1	-	32	+0	43	18	36	33	71	47	73	60	62
2	71	47	49	48	45	56	48	55	58	70	71	71
3	>90	44	40	65	40	61	47	49	53	>80	67	>80
4	>90	70	62	62	62	57	63	64	62	67	79	75
5	>90	75	66	70	61	>80	56	>80	62	77	68	>80
6	>90	>80	>80	>80	>80	75	79	68	80	78	78	>80
7	>90	>80	>80	>80	>80	>80	77	>80	71	>80	>80	>80
8	>90	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
9	>90	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
10	---	---	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: **RF IN: 2475 MHz; -4.00 dBm.**
LO IN: 2505 MHz; +7.00 dBm
IF OUT: 30 MHz; -10.31 dBm

Notes: 1. All Harmonics are in (dBc) relative to IF OUTPUT.
2. + entry denotes harmonics are in (dBc) above IF OUTPUT.

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