

Frequency Mixer

MWJ-ED16140/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=95MHz (dB)			RF (IN) (MHz)	LO (MHz)	IP-3 INPUT (dBm)			RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+23dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+14	+17	+20			+14	+17	+20			+14	+17	+20
10.1	105.1	13.02	10.66	8.76	10.1	105.1	9.01	9.60	10.67	10.1	105.1	14.79	14.13	13.22
40.1	135.1	11.03	9.40	8.35	40.1	135.1	9.98	11.16	13.36	40.1	135.1	14.59	13.34	11.67
80.1	175.1	9.69	8.65	8.00	80.1	175.1	11.13	13.13	16.13	80.1	175.1	13.82	11.94	9.79
120.1	215.1	8.91	8.22	7.75	120.1	215.1	13.82	16.79	19.89	120.1	215.1	11.57	9.41	7.21
160.1	255.1	8.36	7.86	7.51	160.1	255.1	16.34	19.37	22.40	160.1	255.1	9.53	7.27	5.11
200.1	295.1	8.24	7.85	7.57	200.1	295.1	18.86	22.03	24.95	200.1	295.1	7.81	5.58	3.55
230.1	325.1	7.80	7.49	7.26	230.1	325.1	21.33	24.55	27.21	230.1	325.1	6.37	4.24	2.47
270.1	365.1	7.57	7.31	7.14	270.1	365.1	23.48	26.54	28.92	270.1	365.1	4.12	2.47	1.30
310.1	405.1	7.50	7.33	7.21	310.1	405.1	27.43	29.77	32.52	310.1	405.1	2.42	1.24	0.60
350.1	445.1	7.31	7.18	7.09	350.1	445.1	30.28	33.54	35.55	350.1	445.1	1.00	0.49	0.25
400.1	495.1	7.51	7.37	7.27	400.1	495.1	32.14	36.77	40.86	400.1	495.1	0.90	0.45	0.23
430.1	525.1	7.51	7.35	7.25	430.1	525.1	30.46	33.79	36.90	430.1	525.1	1.21	0.57	0.28
460.1	555.1	7.71	7.52	7.39	460.1	555.1	28.53	31.62	36.04	460.1	555.1	1.75	0.81	0.38
500.1	595.1	8.14	7.87	7.70	500.1	595.1	26.26	30.02	34.71	500.1	595.1	2.60	1.26	0.57
540.1	635.1	8.31	8.06	7.82	540.1	635.1	25.23	28.45	31.15	540.1	635.1	3.14	1.60	0.75
580.1	675.1	8.85	8.51	8.21	580.1	675.1	23.34	26.52	28.60	580.1	675.1	4.57	2.63	1.32
620.1	715.1	9.07	8.63	8.31	620.1	715.1	20.60	23.15	25.42	620.1	715.1	5.02	3.18	1.81
650.1	745.1	9.40	8.91	8.53	650.1	745.1	19.82	21.49	22.54	650.1	745.1	5.72	3.88	2.37
690.1	785.1	9.87	9.40	9.00	690.1	785.1	19.48	22.08	24.76	690.1	785.1	5.80	3.94	2.46
730.1	825.1	9.49	9.00	8.60	730.1	825.1	18.13	20.97	24.73	730.1	825.1	6.39	4.48	3.03
770.1	865.1	9.47	8.97	8.62	770.1	865.1	18.94	22.58	26.21	770.1	865.1	7.38	5.32	3.43
810.1	905.1	9.35	8.84	8.49	810.1	905.1	18.88	22.28	25.33	810.1	905.1	7.42	5.36	3.48
850.1	945.1	9.45	8.91	8.54	850.1	945.1	18.20	21.41	24.45	850.1	945.1	8.15	6.00	4.06
880.1	975.1	9.51	8.95	8.61	880.1	975.1	17.94	21.15	24.00	880.1	975.1	8.35	6.14	4.23
920.1	1015.1	9.58	9.02	8.66	920.1	1015.1	17.67	20.89	24.23	920.1	1015.1	8.58	6.38	4.32
960.1	1055.1	9.71	9.19	8.82	960.1	1055.1	17.44	20.77	24.38	960.1	1055.1	8.80	6.52	4.38
1000.1	1095.1	9.68	9.18	8.83	1000.1	1095.1	17.40	20.91	24.54	1000.1	1095.1	8.63	6.33	4.27
1040.1	1135.1	9.78	9.29	8.94	1040.1	1135.1	17.21	20.78	24.69	1040.1	1135.1	8.90	6.60	4.35
1070.1	1165.1	9.75	9.27	8.92	1070.1	1165.1	17.13	20.81	24.64	1070.1	1165.1	9.16	6.82	4.53
1110.1	1205.1	9.68	9.15	8.78	1110.1	1205.1	16.67	20.36	24.10	1110.1	1205.1	9.59	7.23	5.02
1150.1	1245.1	9.54	8.96	8.56	1150.1	1245.1	16.37	19.94	23.44	1150.1	1245.1	9.89	7.52	5.28
1190.1	1285.1	9.41	8.80	8.36	1190.1	1285.1	15.93	19.17	22.69	1190.1	1285.1	9.89	7.55	5.18
1230.1	1325.1	9.33	8.69	8.23	1230.1	1325.1	15.35	18.30	21.39	1230.1	1325.1	10.15	7.85	5.47
1270.1	1365.1	9.20	8.56	8.09	1270.1	1365.1	15.01	17.87	20.85	1270.1	1365.1	10.11	7.79	5.48
1300.1	1395.1	9.31	8.65	8.19	1300.1	1395.1	14.48	17.64	20.99	1300.1	1395.1	10.50	8.21	5.86
1340.1	1435.1	9.33	8.73	8.28	1340.1	1435.1	14.64	18.30	22.37	1340.1	1435.1	10.18	7.93	5.62
1380.1	1475.1	9.61	8.99	8.53	1380.1	1475.1	14.61	18.08	21.64	1380.1	1475.1	9.98	7.78	5.54
1420.1	1515.1	9.96	9.35	8.90	1420.1	1515.1	14.79	17.93	21.16	1420.1	1515.1	9.69	7.49	5.30
1460.1	1555.1	10.60	10.03	9.61	1460.1	1555.1	15.25	18.07	21.01	1460.1	1555.1	8.40	6.29	4.25
1500.1	1595.1	11.87	11.36	11.00	1500.1	1595.1	15.55	18.20	20.87	1500.1	1595.1	7.33	5.24	3.47

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=385.1MHz (dB)
		@LO (dBm)
		+17
285.0	100.1	11.99
275.0	110.1	11.56
260.0	125.1	10.79
245.0	140.1	10.32
230.0	155.1	10.12
215.0	170.1	9.84
205.0	180.1	9.66
190.0	195.1	9.36
175.0	210.1	9.01
160.0	225.1	8.74
145.0	240.1	8.71
130.0	255.1	8.52
120.0	265.1	8.41
105.0	280.1	8.34
90.0	295.1	7.98
75.0	310.1	7.83
60.0	325.1	7.85
50.0	335.1	7.75
35.0	350.1	7.67
20.0	365.1	7.64
15.0	400.1	7.61
75.0	460.1	7.36
135.0	520.1	7.34
195.0	580.1	7.53
255.0	640.1	7.81
315.0	700.1	8.42
375.0	760.1	8.92
435.0	820.1	8.36
495.0	880.1	8.50
555.0	940.1	9.07
625.0	1010.1	9.52
685.0	1070.1	9.73
745.0	1130.1	9.81
805.0	1190.1	9.96
865.0	1250.1	10.10
925.0	1310.1	10.30
985.0	1370.1	10.22
1045.0	1430.1	10.04
1105.0	1490.1	10.02
1165.0	1550.1	10.60

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=220.1MHz (dB)
		@LO (dBm)
		+17
10.0	230.1	8.50
40.0	260.1	7.95
70.0	290.1	7.74
110.0	330.1	7.55
140.0	360.1	7.47
180.0	400.1	7.26
210.0	430.1	7.19
250.0	470.1	7.19
280.0	500.1	7.15
320.0	540.1	7.16
350.0	570.1	7.22
390.0	610.1	7.43
420.0	640.1	7.64
460.0	680.1	8.24
490.0	710.1	8.65
530.0	750.1	8.43
560.0	780.1	8.21
600.0	820.1	8.22
630.0	850.1	8.42
670.0	890.1	8.53
700.0	920.1	8.65
740.0	960.1	8.82
770.0	990.1	8.91
810.0	1030.1	9.04
840.0	1060.1	9.11
880.0	1100.1	9.11
910.0	1130.1	9.29
950.0	1170.1	9.47
980.0	1200.1	9.63
1020.0	1240.1	9.75
1050.0	1270.1	9.75
1090.0	1310.1	9.65
1120.0	1340.1	9.53
1160.0	1380.1	9.25
1190.0	1410.1	9.16
1230.0	1450.1	9.04
1260.0	1480.1	9.19
1300.0	1520.1	9.61
1330.0	1550.1	10.12
1370.0	1590.1	11.20

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=550.1MHz (dB)
		@LO (dBm)
		+17
430.0	120.1	11.58
420.0	130.1	11.26
410.0	140.1	11.00
400.0	150.1	10.86
390.0	160.1	10.66
380.0	170.1	10.48
370.0	180.1	10.30
355.0	195.1	10.12
345.0	205.1	9.88
335.0	215.1	9.70
325.0	225.1	9.46
315.0	235.1	9.37
305.0	245.1	9.24
290.0	260.1	9.06
280.0	270.1	8.89
270.0	280.1	8.77
260.0	290.1	8.59
250.0	300.1	8.47
240.0	310.1	8.40
230.0	320.1	8.31
215.0	335.1	8.16
205.0	345.1	8.12
195.0	355.1	7.98
185.0	365.1	7.97
175.0	375.1	7.82
165.0	385.1	7.79
150.0	400.1	7.74
140.0	410.1	7.71
130.0	420.1	7.58
120.0	430.1	7.60
110.0	440.1	7.57
100.0	450.1	7.57
90.0	460.1	7.54
75.0	475.1	7.51
65.0	485.1	7.52
55.0	495.1	7.53
45.0	505.1	7.53
35.0	515.1	7.56
25.0	525.1	7.64
10.0	540.1	7.99

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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
105.1	97.81	93.51	90.74	78.62	77.97	78.29
135.1	86.87	78.70	79.61	75.69	75.53	74.70
175.1	79.95	76.34	74.55	73.03	72.10	70.71
215.1	69.17	68.32	67.34	70.18	68.41	66.62
255.1	66.04	64.50	63.52	66.46	64.64	63.20
295.1	62.17	61.31	60.89	63.06	61.50	60.62
325.1	58.35	57.77	57.19	59.73	58.49	57.47
365.1	55.71	55.08	54.62	56.41	55.39	54.51
405.1	52.64	52.20	51.94	53.08	52.33	51.72
445.1	50.03	49.63	49.30	48.06	47.40	46.79
495.1	48.82	48.47	48.16	44.96	44.33	43.85
525.1	49.90	49.50	49.18	45.23	44.56	44.02
555.1	51.28	50.66	50.18	46.62	45.91	45.41
595.1	54.27	53.40	52.71	48.13	47.39	46.86
635.1	56.01	54.93	54.10	47.96	47.19	46.58
675.1	57.64	56.37	55.28	47.21	46.34	45.68
715.1	57.83	56.37	55.11	45.81	45.10	44.62
745.1	56.24	55.69	55.25	45.36	44.77	44.30
785.1	54.16	53.56	53.20	47.21	46.94	46.75
825.1	52.91	52.63	52.43	46.85	46.60	46.33
865.1	57.51	56.86	56.29	49.72	49.44	49.27
905.1	61.31	60.67	60.02	52.38	52.09	51.85
945.1	58.64	57.95	57.35	54.49	54.41	54.24
975.1	56.96	56.74	56.53	55.07	55.00	54.84
1015.1	66.70	67.04	66.44	56.39	56.38	56.28
1055.1	57.21	57.33	57.58	57.40	57.43	57.41
1095.1	52.74	52.65	52.71	58.01	57.89	57.89
1135.1	54.26	54.46	54.80	57.87	57.70	57.43
1165.1	53.26	53.59	54.00	59.27	58.96	58.90
1205.1	49.23	49.37	49.59	61.64	61.35	61.37
1245.1	50.47	50.64	50.90	64.70	64.91	65.73
1285.1	47.84	47.94	48.10	60.76	60.93	61.05
1325.1	47.32	47.40	47.46	55.76	55.51	55.59
1365.1	46.97	46.83	46.62	52.12	51.88	51.98
1395.1	45.01	44.85	44.65	51.11	50.85	50.94
1435.1	42.79	42.57	42.42	49.36	49.05	49.01
1475.1	42.90	42.58	42.28	47.90	47.49	47.28
1515.1	41.47	41.23	40.95	45.58	45.25	45.01
1555.1	38.71	38.62	38.43	42.27	42.09	41.89
1595.1	37.08	37.00	36.86	39.79	39.70	39.56

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
10.1	105.1	47.70	47.14	48.37
40.1	135.1	51.21	47.60	43.03
80.1	175.1	47.93	47.41	47.13
120.1	215.1	47.30	46.50	42.61
160.1	255.1	47.98	45.84	40.60
200.1	295.1	47.30	44.99	41.10
230.1	325.1	48.35	47.68	47.56
270.1	365.1	49.01	48.64	49.31
310.1	405.1	46.05	45.13	44.26
350.1	445.1	46.45	45.60	45.03
400.1	495.1	47.86	47.56	47.21
430.1	525.1	47.97	47.80	47.94
460.1	555.1	46.68	46.47	46.81
500.1	595.1	44.50	44.27	43.89
540.1	635.1	42.60	42.07	41.59
580.1	675.1	41.86	41.51	41.42
620.1	715.1	40.71	39.71	39.40
650.1	745.1	42.86	40.59	38.95
690.1	785.1	45.58	44.89	43.77
730.1	825.1	39.43	38.04	36.67
770.1	865.1	40.67	39.48	38.42
810.1	905.1	42.54	41.63	40.91
850.1	945.1	42.63	41.57	40.80
880.1	975.1	42.16	40.93	39.57
920.1	1015.1	42.52	41.11	39.41
960.1	1055.1	42.44	41.13	39.21
1000.1	1095.1	42.09	40.98	39.03
1040.1	1135.1	41.32	40.74	39.08
1070.1	1165.1	40.85	40.53	39.44
1110.1	1205.1	41.09	40.63	39.68
1150.1	1245.1	41.91	41.73	40.40
1190.1	1285.1	43.35	43.23	41.66
1230.1	1325.1	42.51	41.98	40.72
1270.1	1365.1	38.99	37.66	36.93
1300.1	1395.1	37.98	36.43	35.56
1340.1	1435.1	38.94	37.34	36.55
1380.1	1475.1	39.85	37.44	36.41
1420.1	1515.1	38.13	35.46	34.23
1460.1	1555.1	38.37	36.43	35.91
1500.1	1595.1	46.21	42.72	41.95

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=550.1MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
10.1	105.1	1.19	1.19	1.22	105.1	4.55	4.55	4.55	10.1	1.53	1.64	1.69
40.1	135.1	1.22	1.17	1.15	135.1	4.52	4.52	4.52	15.1	1.62	1.71	1.78
80.1	175.1	1.35	1.32	1.32	175.1	4.46	4.46	4.46	20.1	1.59	1.70	1.77
120.1	215.1	1.46	1.44	1.44	215.1	4.37	4.37	4.37	30.1	1.65	1.75	1.84
160.1	255.1	1.59	1.59	1.59	255.1	4.30	4.30	4.29	35.1	1.62	1.73	1.81
200.1	295.1	1.68	1.67	1.67	295.1	4.15	4.15	4.15	45.1	1.66	1.76	1.87
230.1	325.1	1.73	1.71	1.71	325.1	4.01	4.01	4.00	50.1	1.66	1.75	1.84
270.1	365.1	1.82	1.80	1.78	365.1	3.66	3.65	3.65	60.1	1.64	1.73	1.84
310.1	405.1	1.82	1.79	1.77	405.1	3.01	3.00	2.98	65.1	1.62	1.74	1.82
350.1	445.1	1.86	1.82	1.80	445.1	2.01	1.99	1.97	75.1	1.60	1.71	1.81
400.1	495.1	1.95	1.90	1.85	495.1	1.34	1.36	1.38	80.1	1.58	1.68	1.78
430.1	525.1	2.09	2.01	1.95	525.1	1.97	2.00	2.02	90.1	1.56	1.66	1.75
460.1	555.1	2.28	2.19	2.11	555.1	2.55	2.58	2.60	95.1	1.56	1.66	1.74
500.1	595.1	2.61	2.50	2.42	595.1	3.09	3.10	3.12	105.1	1.55	1.64	1.72
540.1	635.1	2.98	2.88	2.78	635.1	3.41	3.41	3.42	110.1	1.54	1.63	1.71
580.1	675.1	3.37	3.26	3.15	675.1	3.58	3.57	3.58	120.1	1.56	1.64	1.72
620.1	715.1	3.55	3.43	3.32	715.1	3.64	3.64	3.63	125.1	1.56	1.64	1.73
650.1	745.1	3.39	3.27	3.16	745.1	3.67	3.66	3.65	135.1	1.54	1.63	1.71
690.1	785.1	3.26	3.09	2.94	785.1	3.71	3.69	3.68	140.1	1.53	1.61	1.69
730.1	825.1	3.01	2.82	2.66	825.1	3.85	3.83	3.82	150.1	1.49	1.56	1.64
770.1	865.1	2.89	2.70	2.54	865.1	3.95	3.94	3.94	155.1	1.46	1.53	1.60
810.1	905.1	2.78	2.58	2.42	905.1	4.03	4.02	4.01	165.1	1.46	1.53	1.59
850.1	945.1	2.67	2.46	2.30	945.1	4.10	4.10	4.09	170.1	1.46	1.52	1.59
880.1	975.1	2.57	2.38	2.22	975.1	4.11	4.10	4.09	180.1	1.46	1.52	1.58
920.1	1015.1	2.53	2.35	2.21	1015.1	4.19	4.19	4.18	185.1	1.45	1.51	1.58
960.1	1055.1	2.53	2.39	2.27	1055.1	4.25	4.25	4.24	195.1	1.44	1.49	1.55
1000.1	1095.1	2.54	2.44	2.37	1095.1	4.28	4.28	4.26	200.1	1.43	1.49	1.54
1040.1	1135.1	2.59	2.54	2.50	1135.1	4.39	4.39	4.39	210.1	1.44	1.49	1.54
1070.1	1165.1	2.55	2.52	2.50	1165.1	4.42	4.41	4.40	215.1	1.44	1.48	1.54
1110.1	1205.1	2.50	2.49	2.47	1205.1	4.49	4.48	4.47	225.1	1.43	1.47	1.52
1150.1	1245.1	2.36	2.35	2.33	1245.1	4.61	4.60	4.59	230.1	1.42	1.46	1.50
1190.1	1285.1	2.14	2.12	2.10	1285.1	4.64	4.62	4.58	240.1	1.39	1.42	1.46
1230.1	1325.1	1.92	1.91	1.89	1325.1	4.78	4.77	4.76	245.1	1.39	1.42	1.46
1270.1	1365.1	1.67	1.67	1.66	1365.1	4.86	4.84	4.81	255.1	1.39	1.42	1.45
1300.1	1395.1	1.51	1.51	1.51	1395.1	4.94	4.92	4.88	260.1	1.39	1.41	1.44
1340.1	1435.1	1.28	1.28	1.27	1435.1	5.06	5.05	5.04	270.1	1.40	1.41	1.44
1380.1	1475.1	1.05	1.05	1.07	1475.1	5.10	5.07	5.02	275.1	1.40	1.41	1.43
1420.1	1515.1	1.14	1.16	1.19	1515.1	5.15	5.15	5.13	285.1	1.41	1.41	1.42
1460.1	1555.1	1.34	1.37	1.41	1555.1	5.05	5.03	4.98	290.1	1.41	1.41	1.41
1500.1	1595.1	1.53	1.57	1.61	1595.1	4.86	4.83	4.78	300.1	1.43	1.42	1.42

Frequency Mixer

Harmonics Tables

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RF HARMONICS ORDER

	(-dBm)	(dBc)										
0	---	---	20.21	20.77	25.91	43.61	40.66	50.77	55.22	67.28	59.77	61.45
1	---	39.78	---	43.16	11.26	45.38	23.63	60.47	45.19	69.75	53.39	57.92
2	106.86	56.80	62.80	51.24	67.58	52.19	59.20	59.16	69.29	73.27	97.30	71.44
3	125.29	95.89	80.29	90.96	77.96	93.99	78.45	113.35	82.06	100.75	106.16	116.46
4	125.94	119.36	113.53	118.66	121.35	116.17	110.56	115.39	111.85	114.52	115.78	116.12
5	126.53	118.14	108.27	119.51	103.73	106.45	103.45	118.03	110.13	118.82	118.49	118.07
6	123.80	118.50	117.41	120.97	118.42	120.20	115.66	120.83	119.61	119.83	118.00	117.36
7	123.21	115.32	119.01	119.26	119.57	118.91	114.66	118.58	118.84	119.94	120.86	119.67
8	123.51	117.27	117.01	119.54	119.68	118.02	119.97	100.57	118.99	110.97	120.02	117.28
9	123.94	117.13	99.92	117.15	119.33	115.65	112.54	119.51	107.36	118.73	116.20	119.29
10	124.51	118.26	121.04	116.72	119.38	118.34	117.32	120.01	118.10	118.94	118.06	119.96
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 385 MHz; 0 dBm.
LO IN: 480 MHz; +17 dBm
IF OUT: 95 MHz; -7.08 dBm

RF HARMONICS ORDER

	(-dBm)	(dBc)										
0	---	---	28.62	30.12	36.58	62.33	55.88	51.96	66.58	62.50	61.45	57.90
1	---	39.59	---	42.54	11.40	45.13	23.78	59.90	45.64	70.31	52.83	58.65
2	86.32	46.55	52.39	41.35	58.72	42.59	49.93	49.89	60.07	63.80	87.79	61.97
3	94.56	77.60	58.30	70.73	55.61	71.72	56.24	79.25	59.63	81.37	86.63	96.10
4	117.78	86.68	93.29	91.66	106.09	86.71	92.20	81.30	86.12	82.94	93.89	103.77
5	114.81	113.54	97.99	114.08	89.10	111.31	87.54	109.89	92.32	112.56	101.19	113.42
6	116.74	113.35	104.41	123.38	102.67	118.79	102.76	108.02	106.60	102.45	107.20	111.56
7	114.96	121.78	97.52	111.44	97.84	107.63	94.14	110.64	92.89	110.70	93.27	108.84
8	115.95	121.27	121.51	118.59	117.04	112.06	118.21	108.28	113.85	108.32	119.91	108.68
9	116.55	123.93	109.28	120.85	102.71	119.11	100.02	112.92	97.59	114.71	99.30	115.48
10	117.35	122.50	122.30	120.80	122.43	121.94	122.94	117.58	123.52	117.59	122.71	113.40
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 385 MHz; 10 dBm.
LO IN: 480 MHz; +17 dBm
IF OUT: 95 MHz; 2.86 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 represents the Harmonics level of the RF Input Signal to the mixer