

# High Gain Mixer

# MRA-42LH+

## Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION GAIN IF FIXED @IF(OUT)=30MHz (dB)			RF (IN) (MHz)	LO (MHz)	IP-3 OUTPUT (dBm)			RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+4dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+7	+10	+13			+7	+10	+13			+7	+10	+13
1000.1	1030.1	12.57	12.80	12.91	1000.1	1030.1	21.55	22.21	22.20	1000.1	1030.1	2.38	2.22	2.02
1050.1	1080.1	12.47	12.63	12.69	1050.1	1080.1	22.09	22.35	22.01	1050.1	1080.1	2.24	2.01	1.79
1100.1	1130.1	12.10	12.32	12.42	1100.1	1130.1	20.81	21.70	21.72	1100.1	1130.1	1.82	1.67	1.51
1150.1	1180.1	11.85	12.01	12.13	1150.1	1180.1	18.13	19.25	20.22	1150.1	1180.1	1.64	1.50	1.39
1200.1	1230.1	11.81	11.88	11.90	1200.1	1230.1	19.38	20.46	20.99	1200.1	1230.1	1.55	1.39	1.25
1250.1	1280.1	11.80	11.79	11.78	1250.1	1280.1	19.87	20.57	20.79	1250.1	1280.1	1.23	1.06	0.90
1300.1	1330.1	11.92	11.80	11.72	1300.1	1330.1	20.19	20.76	21.05	1300.1	1330.1	1.25	1.13	1.02
1350.1	1380.1	12.12	11.94	11.78	1350.1	1380.1	22.09	21.46	22.10	1350.1	1380.1	1.14	0.97	0.88
1400.1	1430.1	12.36	12.19	11.97	1400.1	1430.1	22.98	23.45	23.46	1400.1	1430.1	1.21	1.03	0.89
1450.1	1480.1	12.25	12.19	12.04	1450.1	1480.1	24.33	24.74	24.80	1450.1	1480.1	1.10	0.97	0.81
1500.1	1530.1	11.93	11.97	11.91	1500.1	1530.1	25.35	25.54	25.36	1500.1	1530.1	0.98	0.88	0.75
1550.1	1580.1	11.59	11.69	11.69	1550.1	1580.1	24.17	24.78	24.30	1550.1	1580.1	0.85	0.74	0.63
1600.1	1630.1	11.49	11.58	11.61	1600.1	1630.1	24.70	24.97	24.62	1600.1	1630.1	0.84	0.77	0.70
1650.1	1680.1	11.43	11.53	11.57	1650.1	1680.1	20.46	21.00	21.50	1650.1	1680.1	0.86	0.78	0.71
1700.1	1730.1	11.53	11.61	11.63	1700.1	1730.1	21.27	22.61	23.15	1700.1	1730.1	1.10	1.00	0.88
1800.1	1830.1	11.82	11.85	11.84	1800.1	1830.1	23.78	24.41	24.50	1800.1	1830.1	1.13	1.00	0.92
1900.1	1930.1	12.15	12.12	12.06	1900.1	1930.1	23.97	25.48	25.59	1900.1	1930.1	0.97	0.86	0.83
2000.1	2030.1	12.25	12.14	12.01	2000.1	2030.1	27.41	27.20	26.77	2000.1	2030.1	0.60	0.54	0.53
2100.1	2130.1	12.06	11.89	11.70	2100.1	2130.1	25.35	25.71	26.04	2100.1	2130.1	0.77	0.64	0.59
2200.1	2230.1	12.11	12.16	12.16	2200.1	2230.1	24.19	24.51	24.92	2200.1	2230.1	1.33	1.18	1.03
2300.1	2330.1	12.05	12.21	12.30	2300.1	2330.1	21.03	21.97	22.65	2300.1	2330.1	1.76	1.59	1.43
2400.1	2430.1	12.70	12.75	12.74	2400.1	2430.1	21.17	21.89	22.85	2400.1	2430.1	1.72	1.60	1.48
2500.1	2530.1	12.37	12.54	12.59	2500.1	2530.1	20.13	21.56	22.61	2500.1	2530.1	1.77	1.58	1.40
2600.1	2630.1	12.48	12.66	12.74	2600.1	2630.1	19.69	21.77	23.38	2600.1	2630.1	2.12	2.02	1.86
2700.1	2730.1	12.46	12.44	12.38	2700.1	2730.1	16.22	16.37	16.71	2700.1	2730.1	1.93	1.73	1.59
2800.1	2830.1	12.53	12.53	12.49	2800.1	2830.1	16.91	17.18	17.72	2800.1	2830.1	2.00	1.80	1.66
2900.1	2930.1	12.52	12.44	12.32	2900.1	2930.1	20.24	20.00	19.88	2900.1	2930.1	1.83	1.68	1.56
3000.1	3030.1	12.60	12.55	12.46	3000.1	3030.1	22.69	22.38	21.96	3000.1	3030.1	1.43	1.35	1.29
3100.1	3130.1	12.62	12.55	12.44	3100.1	3130.1	23.15	23.07	22.59	3100.1	3130.1	1.18	1.14	1.12
3200.1	3230.1	12.45	12.33	12.20	3200.1	3230.1	23.20	24.02	24.32	3200.1	3230.1	0.85	0.80	0.81
3300.1	3330.1	12.41	12.25	12.07	3300.1	3330.1	25.08	25.56	25.72	3300.1	3330.1	0.84	0.73	0.68
3400.1	3430.1	12.25	12.09	11.92	3400.1	3430.1	24.79	25.55	25.87	3400.1	3430.1	1.32	1.08	0.92
3500.1	3530.1	11.68	11.61	11.50	3500.1	3530.1	24.65	24.94	24.83	3500.1	3530.1	1.43	1.27	1.20
3600.1	3630.1	11.60	11.59	11.53	3600.1	3630.1	24.36	24.28	24.41	3600.1	3630.1	0.99	0.84	0.83
3700.1	3730.1	11.33	11.46	11.45	3700.1	3730.1	23.53	23.81	24.01	3700.1	3730.1	1.49	1.41	1.35
3800.1	3830.1	10.85	10.92	10.85	3800.1	3830.1	23.20	21.84	19.76	3800.1	3830.1	1.11	1.18	1.32
3900.1	3930.1	10.69	10.81	10.21	3900.1	3930.1	18.29	18.62	16.31	3900.1	3930.1	1.53	1.72	1.67
4000.1	4030.1	10.93	11.03	10.31	4000.1	4030.1	18.05	18.26	14.78	4000.1	4030.1	1.69	2.00	2.05
4100.1	4130.1	11.28	10.41	8.43	4100.1	4130.1	16.36	13.56	21.42	4100.1	4130.1	2.17	1.88	0.93
4200.1	4230.1	11.30	10.33	9.20	4200.1	4230.1	14.50	13.90	15.88	4200.1	4230.1	2.29	1.70	1.28

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## Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION GAIN VS. IF FREQUENCY @RF(IN)=2600.1MHz (dB)
		@LO (dBm)
		+10
1800.0	800.1	-10.84
1710.0	890.1	-8.37
1620.0	980.1	-6.86
1530.0	1070.1	-4.94
1440.0	1160.1	-1.70
1350.0	1250.1	0.77
1260.0	1340.1	4.33
1170.0	1430.1	5.36
1070.0	1530.1	6.35
980.0	1620.1	5.88
890.0	1710.1	6.42
800.0	1800.1	7.21
710.0	1890.1	8.31
600.0	2000.1	9.22
530.0	2070.1	9.27
440.0	2160.1	9.95
340.0	2260.1	10.56
250.0	2350.1	10.86
160.0	2440.1	10.75
70.0	2530.1	11.43
20.0	2620.1	13.50
110.0	2710.1	9.92
200.0	2800.1	10.00
290.0	2890.1	9.99
380.0	2980.1	9.85
470.0	3070.1	9.80
560.0	3160.1	9.98
650.0	3250.1	9.77
750.0	3350.1	9.01
840.0	3440.1	8.06
930.0	3530.1	6.99
1020.0	3620.1	6.10
1110.0	3710.1	4.72
1200.0	3800.1	3.13
1290.0	3890.1	1.30
1380.0	3980.1	-0.22
1480.0	4080.1	-2.69
1570.0	4170.1	-5.03
1660.0	4260.1	-8.37
1750.0	4350.1	-11.81

IF (OUT) (MHz)	LO (MHz)	CONVERSION GAIN VS. IF FREQUENCY @RF(IN)=1000.1MHz (dB)
		@LO (dBm)
		+10
20.0	1020.1	13.81
70.0	1070.1	11.64
120.0	1120.1	11.30
170.0	1170.1	11.04
220.0	1220.1	10.84
270.0	1270.1	10.73
320.0	1320.1	10.64
370.0	1370.1	10.39
420.0	1420.1	10.08
470.0	1470.1	9.68
520.0	1520.1	9.41
570.0	1570.1	9.06
620.0	1620.1	8.85
680.0	1680.1	8.84
730.0	1730.1	8.82
780.0	1780.1	8.79
830.0	1830.1	8.53
880.0	1880.1	8.00
930.0	1930.1	7.62
980.0	1980.1	7.18
1030.0	2030.1	6.39
1080.0	2080.1	5.92
1130.0	2130.1	5.04
1180.0	2180.1	4.16
1230.0	2230.1	2.93
1280.0	2280.1	1.68
1340.0	2340.1	0.65
1390.0	2390.1	-0.60
1440.0	2440.1	-1.94
1490.0	2490.1	-3.50
1540.0	2540.1	-4.66
1590.0	2590.1	-6.10
1640.0	2640.1	-6.80
1690.0	2690.1	-7.85
1740.0	2740.1	-8.43
1790.0	2790.1	-9.56
1840.0	2840.1	-11.07
1890.0	2890.1	-13.06
1940.0	2940.1	-14.47
2000.0	3000.1	-16.09

IF (OUT) (MHz)	LO (MHz)	CONVERSION GAIN VS. IF FREQUENCY @RF(IN)=4200.1MHz (dB)
		@LO (dBm)
		+10
1900.0	2300.1	-15.07
1860.0	2340.1	-12.87
1810.0	2390.1	-10.44
1760.0	2440.1	-9.30
1710.0	2490.1	-8.34
1660.0	2540.1	-7.30
1620.0	2580.1	-6.50
1570.0	2630.1	-5.62
1520.0	2680.1	-4.61
1470.0	2730.1	-3.52
1420.0	2780.1	-1.87
1370.0	2830.1	-0.45
1330.0	2870.1	0.89
1280.0	2920.1	1.94
1230.0	2970.1	2.73
1180.0	3020.1	2.86
1130.0	3070.1	3.31
1090.0	3110.1	3.57
1040.0	3160.1	4.43
990.0	3210.1	5.06
940.0	3260.1	5.50
890.0	3310.1	5.96
840.0	3360.1	6.82
800.0	3400.1	7.06
750.0	3450.1	7.31
700.0	3500.1	7.66
650.0	3550.1	7.93
600.0	3600.1	7.96
560.0	3640.1	8.29
510.0	3690.1	8.90
460.0	3740.1	9.36
410.0	3790.1	9.38
360.0	3840.1	9.68
310.0	3890.1	10.37
270.0	3930.1	10.58
200.0	4000.1	10.70
170.0	4030.1	10.57
120.0	4080.1	10.42
70.0	4130.1	10.12
20.0	4180.1	11.40

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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
1030.1	39.20	38.38	37.85	18.88	19.09	19.17
1080.1	40.04	38.99	38.34	18.22	18.62	18.78
1130.1	40.73	39.66	39.02	17.48	17.74	17.88
1180.1	39.98	39.42	39.11	16.69	16.89	17.01
1230.1	42.09	42.05	42.33	16.05	16.34	16.50
1280.1	41.26	42.06	42.69	15.73	15.87	15.97
1330.1	41.26	41.17	41.12	15.62	15.77	15.89
1380.1	39.60	39.18	38.90	16.22	16.37	16.46
1430.1	39.35	37.75	37.18	16.17	16.46	16.63
1480.1	42.33	41.23	40.04	16.39	17.37	18.08
1530.1	43.90	42.79	41.45	16.11	17.19	18.11
1580.1	45.55	44.35	43.68	17.18	18.21	19.05
1630.1	40.28	40.13	39.72	16.95	18.05	18.97
1680.1	42.24	42.01	41.65	16.76	17.99	18.99
1730.1	43.59	41.70	40.51	16.17	17.22	18.09
1830.1	45.32	42.66	40.87	15.54	16.40	17.07
1930.1	38.35	37.64	37.06	14.95	15.57	15.98
2030.1	39.02	38.54	38.11	14.02	14.27	14.37
2130.1	39.11	38.75	38.02	13.19	12.88	12.51
2230.1	36.22	35.97	35.55	25.14	21.85	19.86
2330.1	37.01	36.11	35.30	24.26	23.69	22.91
2430.1	36.71	35.86	35.27	20.90	20.96	20.87
2530.1	37.97	37.64	37.98	19.64	19.74	19.73
2630.1	36.18	35.74	35.53	19.01	19.09	19.08
2730.1	33.94	32.51	32.21	19.23	19.31	19.28
2830.1	34.04	33.03	32.22	20.41	20.31	20.18
2930.1	31.56	30.47	29.67	24.02	23.88	23.51
3030.1	29.68	29.17	28.67	23.98	25.37	26.39
3130.1	31.29	30.09	29.21	23.30	24.78	26.07
3230.1	31.16	29.63	28.62	24.06	24.14	24.10
3330.1	29.24	27.86	26.95	23.12	22.21	21.62
3430.1	29.47	27.85	26.83	22.13	21.10	20.37
3530.1	34.36	32.27	31.02	20.51	19.89	19.35
3630.1	33.79	31.96	30.63	18.79	18.53	18.19
3730.1	30.86	29.81	29.03	19.02	19.41	19.57
3830.1	30.76	29.46	28.32	20.16	20.71	21.10
3930.1	33.87	31.89	29.92	21.77	22.39	23.05
4030.1	33.53	31.68	29.63	19.52	20.44	21.23
4130.1	31.22	30.04	27.64	18.35	19.42	19.83
4230.1	30.64	30.18	26.56	17.30	18.02	18.18

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+7	+10	+13
1000.1	1030.1	-0.67	-1.18	-1.53
1050.1	1080.1	0.52	-0.05	-0.45
1100.1	1130.1	2.01	1.36	0.92
1150.1	1180.1	5.01	4.23	3.58
1200.1	1230.1	7.68	6.73	6.07
1250.1	1280.1	11.20	9.78	8.85
1300.1	1330.1	13.84	12.80	11.84
1350.1	1380.1	13.31	11.98	11.15
1400.1	1430.1	12.46	11.44	10.55
1450.1	1480.1	12.72	11.83	10.99
1500.1	1530.1	13.70	12.77	12.05
1550.1	1580.1	15.11	14.50	14.04
1600.1	1630.1	17.67	17.31	16.99
1650.1	1680.1	19.73	19.37	19.07
1700.1	1730.1	21.43	20.85	20.38
1800.1	1830.1	22.19	21.91	21.49
1900.1	1930.1	21.76	21.32	20.82
2000.1	2030.1	21.03	20.70	20.18
2100.1	2130.1	22.01	22.14	21.84
2200.1	2230.1	33.14	35.34	36.67
2300.1	2330.1	39.72	36.22	32.78
2400.1	2430.1	31.26	29.57	27.61
2500.1	2530.1	28.38	27.08	25.58
2600.1	2630.1	25.39	24.25	22.94
2700.1	2730.1	23.32	22.84	22.28
2800.1	2830.1	20.64	20.09	19.58
2900.1	2930.1	17.24	17.15	17.35
3000.1	3030.1	17.42	17.48	17.65
3100.1	3130.1	19.15	19.22	19.24
3200.1	3230.1	20.45	20.33	20.09
3300.1	3330.1	20.52	20.05	19.54
3400.1	3430.1	18.92	18.34	17.78
3500.1	3530.1	27.15	26.34	25.28
3600.1	3630.1	23.54	22.75	21.97
3700.1	3730.1	27.13	25.86	24.75
3800.1	3830.1	28.93	27.16	25.67
3900.1	3930.1	42.34	35.63	32.00
4000.1	4030.1	34.03	33.39	31.94
4100.1	4130.1	31.05	33.89	36.76
4200.1	4230.1	31.98	36.88	33.29

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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=4200.1MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+7	+10	+13		+7	+10	+13		+7	+10	+13
1000.1	1030.1	1.52	1.48	1.46	1030.1	3.17	3.54	4.27	10.1	1.31	1.29	1.11
1050.1	1080.1	1.57	1.54	1.52	1080.1	2.52	2.98	3.72	30.1	1.23	1.23	1.21
1100.1	1130.1	1.69	1.67	1.66	1130.1	2.12	2.60	3.31	50.1	1.25	1.27	1.30
1150.1	1180.1	1.87	1.86	1.85	1180.1	1.84	2.33	3.01	70.1	1.28	1.27	1.29
1200.1	1230.1	1.98	1.99	1.99	1230.1	1.69	2.16	2.81	90.1	1.32	1.32	1.32
1250.1	1280.1	2.06	2.09	2.09	1280.1	1.64	2.05	2.68	110.1	1.37	1.37	1.39
1300.1	1330.1	2.13	2.20	2.21	1330.1	1.68	2.07	2.69	130.1	1.42	1.42	1.43
1350.1	1380.1	2.08	2.16	2.18	1380.1	1.79	2.16	2.76	150.1	1.48	1.47	1.47
1400.1	1430.1	1.80	1.88	1.90	1430.1	1.91	2.33	2.96	170.1	1.52	1.52	1.52
1450.1	1480.1	1.57	1.62	1.65	1480.1	1.99	2.44	3.10	190.1	1.59	1.59	1.57
1500.1	1530.1	1.62	1.67	1.70	1530.1	2.20	2.73	3.46	210.1	1.63	1.62	1.63
1550.1	1580.1	1.64	1.68	1.70	1580.1	2.38	2.94	3.67	230.1	1.68	1.69	1.69
1600.1	1630.1	1.69	1.73	1.75	1630.1	2.41	2.99	3.80	250.1	1.74	1.74	1.75
1650.1	1680.1	1.65	1.69	1.69	1680.1	2.33	3.01	3.88	270.1	1.81	1.80	1.82
1700.1	1730.1	1.67	1.70	1.68	1730.1	2.47	3.25	4.19	290.1	1.84	1.85	1.85
1800.1	1830.1	1.51	1.55	1.56	1830.1	2.43	3.28	4.28	310.1	1.87	1.88	1.88
1900.1	1930.1	1.28	1.31	1.32	1930.1	2.39	3.27	4.30	330.1	1.90	1.90	1.92
2000.1	2030.1	1.37	1.38	1.37	2030.1	2.50	3.32	4.29	350.1	1.95	1.96	1.96
2100.1	2130.1	1.65	1.65	1.63	2130.1	2.86	3.51	4.31	370.1	1.98	1.97	1.98
2200.1	2230.1	1.62	1.62	1.62	2230.1	3.09	3.66	4.42	390.1	1.97	1.98	1.99
2300.1	2330.1	1.55	1.55	1.55	2330.1	3.30	3.68	4.30	410.1	1.96	1.96	1.96
2400.1	2430.1	1.38	1.37	1.37	2430.1	3.38	3.55	4.06	430.1	1.95	1.95	1.95
2500.1	2530.1	1.58	1.57	1.57	2530.1	3.36	3.37	3.73	450.1	1.93	1.93	1.93
2600.1	2630.1	1.40	1.40	1.39	2630.1	3.39	3.14	3.35	470.1	1.90	1.90	1.90
2700.1	2730.1	1.41	1.40	1.40	2730.1	3.09	2.87	3.07	490.1	1.85	1.84	1.84
2800.1	2830.1	1.61	1.60	1.60	2830.1	2.64	2.32	2.51	510.1	1.78	1.78	1.78
2900.1	2930.1	1.71	1.71	1.71	2930.1	2.22	1.91	2.18	530.1	1.71	1.72	1.71
3000.1	3030.1	1.87	1.87	1.87	3030.1	2.29	1.95	2.16	550.1	1.66	1.65	1.65
3100.1	3130.1	2.08	2.08	2.08	3130.1	2.45	2.05	2.21	570.1	1.59	1.59	1.58
3200.1	3230.1	1.98	1.98	1.98	3230.1	2.63	2.17	2.29	590.1	1.52	1.52	1.51
3300.1	3330.1	1.57	1.57	1.57	3330.1	2.87	2.26	2.33	610.1	1.44	1.44	1.43
3400.1	3430.1	1.40	1.40	1.40	3430.1	3.35	2.58	2.53	630.1	1.39	1.38	1.38
3500.1	3530.1	1.60	1.61	1.61	3530.1	3.82	2.80	2.59	650.1	1.33	1.32	1.32
3600.1	3630.1	1.42	1.43	1.43	3630.1	4.24	3.09	2.74	670.1	1.27	1.26	1.26
3700.1	3730.1	1.65	1.66	1.66	3730.1	4.79	3.26	2.75	690.1	1.21	1.20	1.20
3800.1	3830.1	1.58	1.58	1.58	3830.1	5.17	3.42	2.73	710.1	1.16	1.15	1.15
3900.1	3930.1	1.37	1.37	1.36	3930.1	5.39	3.51	2.73	730.1	1.12	1.11	1.11
4000.1	4030.1	1.25	1.25	1.25	4030.1	5.49	3.43	2.61	750.1	1.09	1.09	1.08
4100.1	4130.1	1.18	1.21	1.23	4130.1	5.37	3.18	2.30	770.1	1.08	1.08	1.08
4200.1	4230.1	1.15	1.18	1.21	4230.1	5.06	3.06	2.14	800.1	1.11	1.11	1.11

## Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	---	10.35	45.67	59.98	60.96	40.38	79.07	54.44	96.81	71.58	96.59
1	---	38.23	---	42.51	47.33	76.11	72.86	71.75	91.06	83.76	100.09	98.50
2	99.21	72.35	68.86	44.21	75.94	76.85	102.99	96.80	79.62	90.56	82.39	98.63
3	103.52	105.32	84.03	88.92	54.12	80.55	89.11	117.22	103.38	109.24	110.94	104.18
4	105.25	116.75	125.53	113.30	109.29	82.79	108.37	107.59	123.04	123.43	111.49	114.59
5	98.29	122.15	125.14	122.85	126.61	122.06	91.32	116.14	120.14	123.16	125.58	121.72
6	95.73	121.24	121.98	125.33	125.99	121.58	122.65	114.67	123.32	123.20	125.00	123.76
7	95.21	119.27	120.74	124.82	122.26	122.72	123.81	123.83	121.52	128.95	122.92	124.51
8	110.69	123.23	118.71	122.09	119.58	123.46	124.44	123.01	123.22	120.88	121.22	121.25
9	104.46	124.12	126.55	116.95	118.86	125.03	118.35	121.07	127.44	120.41	123.03	124.56
10	101.60	124.12	122.88	125.50	117.85	117.74	121.88	123.59	126.50	125.61	122.75	123.04
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 2600.1 MHz; -10 dBm.  
 LO IN: 2630.1 MHz; +10.00 dBm  
 IF OUT: 30 MHz; 2.56 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	---	---	19.89	59.04	72.86	74.13	52.32	83.23	70.43	96.49	87.73	103.55
1	---	37.13	---	42.68	48.56	77.78	77.62	74.74	89.28	83.28	110.45	102.08
2	91.08	58.90	54.57	28.67	61.80	68.20	87.75	87.09	74.98	87.30	81.56	99.50
3	89.63	78.76	57.56	69.08	31.18	58.85	74.42	97.24	91.41	93.05	103.59	88.70
4	92.17	95.39	100.01	80.94	69.93	49.71	78.06	85.94	108.62	97.55	92.21	95.75
5	87.32	92.12	88.56	96.98	76.53	85.05	45.29	69.48	87.32	114.36	97.40	104.48
6	84.86	112.43	95.39	104.81	102.46	84.66	84.43	57.06	95.39	89.01	117.40	105.86
7	87.96	103.54	102.36	113.87	103.41	113.24	86.00	91.64	61.03	76.78	100.40	114.14
8	95.54	123.40	109.98	110.35	106.75	106.48	111.55	91.94	94.02	61.85	88.26	96.93
9	96.73	122.11	122.75	113.19	111.87	101.90	112.63	120.06	98.82	97.98	72.26	81.88
10	92.88	121.10	121.11	127.68	115.30	121.14	110.34	113.81	124.12	97.58	105.88	74.09
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 2600.1 MHz; 0 dBm.  
 LO IN: 2630.1 MHz; +10.00 dBm  
 IF OUT: 30 MHz; 12.09 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