

Frequency Mixer

MBA-18L

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)		
		@LO (dBm)		
		+1	+4	+7
1500.0	1530.0	7.82	6.81	6.34
1600.0	1630.0	7.46	6.46	6.02
1700.0	1730.0	7.03	6.10	5.72
1800.0	1830.0	6.58	5.86	5.56
1900.0	1930.0	6.36	5.76	5.50
2000.0	2030.0	6.19	5.67	5.45
2100.0	2130.0	5.96	5.50	5.28
2200.0	2230.0	5.75	5.37	5.20
2300.0	2330.0	5.67	5.28	5.09
2400.0	2430.0	5.60	5.22	5.05
2500.0	2530.0	5.63	5.24	5.03
2600.0	2630.0	5.64	5.24	5.06
2700.0	2730.0	5.59	5.22	5.07
2800.0	2830.0	5.59	5.28	5.17
2900.0	2930.0	5.84	5.53	5.46
3000.0	3030.0	6.63	6.11	5.86
3100.0	3130.0	6.67	6.09	5.77
3200.0	3230.0	6.30	5.79	5.52
3300.0	3330.0	6.13	5.65	5.43
3400.0	3430.0	6.01	5.53	5.32
3480.0	3510.0	6.06	5.54	5.29
3580.0	3610.0	6.02	5.50	5.22
3660.0	3690.0	6.12	5.62	5.29
3760.0	3790.0	6.09	5.60	5.32
3840.0	3870.0	6.14	5.63	5.38
3940.0	3970.0	6.29	5.66	5.44
4020.0	4050.0	6.44	5.79	5.57
4120.0	4150.0	6.66	5.94	5.73
4200.0	4230.0	6.97	6.16	5.87
4300.0	4330.0	7.52	6.62	6.32
4380.0	4410.0	7.76	6.96	6.71
4480.0	4510.0	8.31	7.26	7.03
4560.0	4590.0	8.83	7.73	7.35
4660.0	4690.0	9.30	8.27	7.99
4740.0	4770.0	9.67	8.62	8.33
4840.0	4870.0	10.06	9.03	8.75
4920.0	4950.0	10.48	9.37	9.07
5020.0	5050.0	10.64	9.77	9.46
5100.0	5130.0	10.94	10.11	9.85
5200.0	5230.0	11.18	10.48	10.21

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+1	+4	+7
1500.0	1530.0	5.54	5.69	5.40
1600.0	1630.0	4.75	5.53	6.16
1700.0	1730.0	4.43	5.71	6.29
1800.0	1830.0	5.23	5.98	6.67
1900.0	1930.0	5.97	7.33	8.72
2000.0	2030.0	8.35	10.22	11.03
2100.0	2130.0	6.83	8.55	9.67
2200.0	2230.0	6.41	7.75	8.95
2300.0	2330.0	6.66	8.41	9.92
2400.0	2430.0	7.23	9.04	10.43
2500.0	2530.0	7.32	9.49	10.96
2600.0	2630.0	9.27	12.55	13.98
2700.0	2730.0	10.93	14.35	15.98
2800.0	2830.0	10.05	14.17	15.24
2900.0	2930.0	8.20	12.76	15.54
3000.0	3030.0	10.75	14.10	12.57
3100.0	3130.0	9.65	6.69	6.83
3200.0	3230.0	6.68	7.74	8.48
3300.0	3330.0	6.59	7.54	8.66
3400.0	3430.0	6.89	7.62	8.82
3480.0	3510.0	7.03	7.76	9.16
3580.0	3610.0	7.20	7.67	8.99
3660.0	3690.0	7.18	8.00	9.26
3760.0	3790.0	6.65	8.14	9.79
3840.0	3870.0	6.40	8.26	10.15
3940.0	3970.0	7.13	8.10	9.77
4020.0	4050.0	8.27	8.70	9.56
4120.0	4150.0	10.90	9.81	9.88
4200.0	4230.0	12.62	11.24	10.57
4300.0	4330.0	13.01	12.75	11.08
4380.0	4410.0	11.06	11.72	12.63
4480.0	4510.0	8.77	9.77	12.88
4560.0	4590.0	11.57	10.56	13.91
4660.0	4690.0	13.17	10.26	12.41
4740.0	4770.0	12.93	11.34	14.98
4840.0	4870.0	13.35	11.32	14.34
4920.0	4950.0	13.33	11.31	13.88
5020.0	5050.0	12.41	11.39	13.78
5100.0	5130.0	12.43	11.12	12.61
5200.0	5230.0	13.03	11.54	12.07

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=-1dBm (dB)		
		@LO (dBm)		
		+1	+4	+7
1500.0	1530.0	0.53	0.55	0.47
1600.0	1630.0	0.56	0.53	0.42
1700.0	1730.0	0.66	0.55	0.42
1800.0	1830.0	0.73	0.48	0.37
1900.0	1930.0	0.78	0.47	0.37
2000.0	2030.0	0.86	0.49	0.34
2100.0	2130.0	0.81	0.45	0.33
2200.0	2230.0	0.80	0.43	0.31
2300.0	2330.0	0.81	0.44	0.29
2400.0	2430.0	0.80	0.44	0.29
2500.0	2530.0	0.82	0.44	0.29
2600.0	2630.0	0.86	0.46	0.30
2700.0	2730.0	0.88	0.40	0.24
2800.0	2830.0	0.98	0.43	0.24
2900.0	2930.0	1.23	0.62	0.38
3000.0	3030.0	1.19	0.77	0.57
3100.0	3130.0	0.99	0.75	0.63
3200.0	3230.0	0.88	0.66	0.55
3300.0	3330.0	0.82	0.58	0.47
3400.0	3430.0	0.77	0.54	0.44
3480.0	3510.0	0.74	0.50	0.42
3580.0	3610.0	0.76	0.50	0.42
3660.0	3690.0	0.84	0.56	0.46
3760.0	3790.0	0.86	0.55	0.46
3840.0	3870.0	0.95	0.58	0.46
3940.0	3970.0	0.91	0.54	0.44
4020.0	4050.0	0.98	0.59	0.46
4120.0	4150.0	0.98	0.57	0.42
4200.0	4230.0	0.83	0.53	0.40
4300.0	4330.0	0.74	0.49	0.39
4380.0	4410.0	0.70	0.46	0.39
4480.0	4510.0	0.57	0.55	0.43
4560.0	4590.0	0.41	0.44	0.34
4660.0	4690.0	0.32	0.36	0.24
4740.0	4770.0	0.27	0.33	0.22
4840.0	4870.0	0.25	0.32	0.21
4920.0	4950.0	0.21	0.30	0.19
5020.0	5050.0	0.24	0.27	0.18
5100.0	5130.0	0.21	0.27	0.18
5200.0	5230.0	0.21	0.23	0.18

REV. X3

MBA-18L

101012

Page 1 of 5



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS9100 CERTIFIED • RoHS compliant
P.O. Box 350186, Brooklyn, New York 11235-0008 (718) 934-4500 Fax (718) 332-4661



The Design Engineers Search Engine finds the model you need, instantly • For detailed performance specs & shopping online see



Frequency Mixer

MBA-18L

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2400MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1589.9MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=3210.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+4			+4			+4
900.0	1500.0	5.85	10.1	1600.0	6.68	1210.1	2000.0	10.20
850.6	1549.4	5.54	50.1	1640.0	6.61	1170.1	2040.0	9.27
801.1	1598.9	5.35	90.1	1680.0	6.60	1130.1	2080.0	8.26
751.7	1648.3	5.22	130.1	1720.0	6.72	1090.1	2120.0	7.55
702.2	1697.8	5.25	170.1	1760.0	6.68	1050.1	2160.0	6.99
652.8	1747.2	5.35	210.1	1800.0	6.71	1030.1	2180.0	6.93
603.3	1796.7	5.33	250.1	1840.0	6.79	990.1	2220.0	7.03
553.9	1846.1	5.21	290.1	1880.0	6.70	970.1	2240.0	6.92
504.4	1895.6	5.13	330.1	1920.0	6.80	930.1	2280.0	7.00
455.0	1945.0	5.03	350.1	1940.0	6.80	910.1	2300.0	7.20
405.6	1994.4	5.09	390.1	1980.0	6.79	870.1	2340.0	7.27
356.1	2043.9	5.11	410.1	2000.0	6.86	850.1	2360.0	7.22
306.7	2093.3	5.17	450.1	2040.0	6.94	810.1	2400.0	7.29
257.2	2142.8	5.22	470.1	2060.0	6.90	790.1	2420.0	7.33
207.8	2192.2	5.26	510.1	2100.0	6.99	750.1	2460.0	7.36
158.3	2241.7	5.25	530.1	2120.0	7.11	730.1	2480.0	7.36
108.9	2291.1	5.31	570.1	2160.0	7.18	690.1	2520.0	7.37
59.4	2340.6	5.26	590.1	2180.0	7.28	670.1	2540.0	7.46
10.0	2390.0	5.56	630.1	2220.0	7.43	630.1	2580.0	7.47
57.0	2457.0	5.23	650.1	2240.0	7.36	610.1	2600.0	7.49
127.6	2527.6	5.27	690.1	2280.0	7.51	570.1	2640.0	7.55
198.1	2598.1	5.31	710.1	2300.0	7.59	550.1	2660.0	7.47
268.7	2668.7	5.28	750.1	2340.0	7.64	510.1	2700.0	7.47
339.3	2739.3	5.18	770.1	2360.0	7.73	490.1	2720.0	7.51
386.3	2786.3	5.20	810.1	2400.0	7.80	450.1	2760.0	7.43
456.9	2856.9	5.53	830.1	2420.0	7.95	430.1	2780.0	7.43
503.9	2903.9	5.74	870.1	2460.0	8.10	390.1	2820.0	7.30
574.4	2974.4	6.03	890.1	2480.0	8.00	370.1	2840.0	7.23
621.5	3021.5	6.19	930.1	2520.0	8.13	330.1	2880.0	7.07
692.0	3092.0	6.61	950.1	2540.0	8.31	310.1	2900.0	6.90
739.1	3139.1	6.82	990.1	2580.0	8.66	270.1	2940.0	6.74
809.6	3209.6	7.25	1010.1	2600.0	8.66	250.1	2960.0	6.60
856.7	3256.7	7.53	1050.1	2640.0	8.86	210.1	3000.0	6.37
927.2	3327.2	7.85	1070.1	2660.0	9.02	190.1	3020.0	6.24
974.3	3374.3	8.17	1110.1	2700.0	9.19	150.1	3060.0	6.01
1044.8	3444.8	8.30	1130.1	2720.0	9.28	130.1	3080.0	5.92
1091.9	3491.9	8.69	1170.1	2760.0	9.59	90.1	3120.0	5.82
1162.4	3562.4	9.09	1190.1	2780.0	9.86	70.1	3140.0	5.75
1209.4	3609.4	9.37	1230.1	2820.0	10.22	30.1	3180.0	5.78
1280.0	3680.0	10.34	1250.1	2840.0	10.18	10.1	3200.0	6.07

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+1	+4	+7	+1	+4	+7
1530.0	25.35	29.47	36.61	14.05	14.28	13.93
1630.0	24.76	29.45	38.48	15.37	15.09	14.59
1730.0	24.41	29.74	41.19	16.98	16.39	15.55
1830.0	24.18	29.80	44.47	18.85	17.74	16.47
1930.0	24.05	30.43	50.88	20.20	18.86	17.82
2030.0	24.25	31.34	43.12	21.25	19.79	18.97
2130.0	25.09	32.43	41.10	21.96	20.98	20.44
2230.0	26.19	34.51	38.94	22.77	22.45	22.28
2330.0	27.24	36.91	34.67	23.26	23.69	24.28
2430.0	28.48	38.50	32.58	23.74	24.73	25.78
2530.0	29.57	39.08	32.08	24.19	25.28	26.12
2630.0	32.03	38.19	30.13	24.37	24.78	24.81
2730.0	36.92	32.81	27.17	24.18	23.57	23.01
2830.0	38.73	30.56	25.88	24.09	22.56	21.28
2930.0	40.06	32.96	27.38	23.19	21.37	19.90
3030.0	38.14	46.41	34.19	21.72	20.04	19.10
3130.0	35.09	32.86	29.73	20.14	18.98	18.15
3230.0	30.91	27.97	25.67	18.51	17.78	17.19
3330.0	28.25	25.65	23.71	17.20	16.90	16.59
3430.0	26.07	24.03	22.29	16.02	16.02	15.99
3510.0	24.76	23.04	21.46	15.23	15.45	15.62
3610.0	23.19	22.11	20.55	14.35	14.84	15.20
3690.0	22.12	21.34	19.99	13.86	14.43	14.86
3790.0	20.88	20.39	19.29	13.29	14.09	14.63
3870.0	20.22	19.72	18.93	12.85	13.64	14.48
3970.0	19.35	19.32	18.48	12.37	13.26	14.15
4050.0	18.78	19.04	18.19	12.14	13.09	13.98
4150.0	18.24	18.85	18.38	11.91	12.78	13.84
4230.0	17.78	18.60	18.50	11.81	12.68	13.75
4330.0	17.37	18.22	18.48	11.64	12.49	13.64
4410.0	17.30	18.17	18.48	11.58	12.45	13.64
4510.0	17.13	17.96	18.38	11.52	12.34	13.59
4590.0	17.21	18.03	18.48	11.40	12.25	13.55
4690.0	17.41	18.45	18.93	11.43	12.32	13.57
4770.0	17.46	18.70	19.36	11.31	12.31	13.55
4870.0	17.64	18.93	19.90	11.30	12.29	13.59
4950.0	17.71	19.18	20.40	11.29	12.41	13.64
5050.0	17.93	19.31	20.61	11.41	12.63	13.89
5130.0	18.09	19.44	20.56	11.61	12.94	14.15
5230.0	18.17	19.07	19.83	12.13	13.46	14.58

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+1	+4	+7
1500.0	1530.0	30.00	27.77	26.34
1600.0	1630.0	25.29	24.40	23.53
1700.0	1730.0	22.34	22.00	21.67
1800.0	1830.0	20.66	20.76	20.51
1900.0	1930.0	19.64	19.75	19.66
2000.0	2030.0	18.95	19.02	19.02
2100.0	2130.0	18.64	18.87	18.86
2200.0	2230.0	18.73	18.81	18.81
2300.0	2330.0	18.92	19.08	19.06
2400.0	2430.0	19.18	19.33	19.23
2500.0	2530.0	19.41	19.47	19.41
2600.0	2630.0	19.64	19.70	19.51
2700.0	2730.0	19.79	19.69	19.57
2800.0	2830.0	19.43	19.26	19.14
2900.0	2930.0	19.11	19.06	18.98
3000.0	3030.0	19.20	19.39	19.55
3100.0	3130.0	20.51	20.52	20.47
3200.0	3230.0	21.58	21.46	21.35
3300.0	3330.0	21.99	21.98	21.70
3400.0	3430.0	22.34	22.41	22.31
3480.0	3510.0	22.48	22.49	22.48
3580.0	3610.0	22.58	22.55	22.68
3660.0	3690.0	22.31	22.43	22.61
3760.0	3790.0	22.15	22.42	22.69
3840.0	3870.0	22.06	22.36	22.71
3940.0	3970.0	22.10	22.59	22.99
4020.0	4050.0	22.38	23.28	23.88
4120.0	4150.0	22.83	23.91	24.86
4200.0	4230.0	23.08	24.30	25.55
4300.0	4330.0	23.79	25.12	26.13
4380.0	4410.0	24.26	25.84	27.13
4480.0	4510.0	25.00	26.44	28.02
4560.0	4590.0	25.76	27.09	27.90
4660.0	4690.0	27.51	28.24	27.64
4740.0	4770.0	28.81	28.58	26.92
4840.0	4870.0	29.74	27.83	25.18
4920.0	4950.0	30.39	26.58	23.96
5020.0	5050.0	30.56	25.34	22.37
5100.0	5130.0	29.93	24.02	21.39
5200.0	5230.0	27.65	22.43	20.00

Frequency Mixer

MBA-18L

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=320MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+1	+4	+7		+1	+4	+7		+1	+4	+7
1500.0	1530.0	3.60	3.19	2.92	1530.0	3.35	2.32	2.20	10.0	1.25	1.04	1.11
1600.0	1630.0	3.07	2.67	2.41	1630.0	3.09	2.24	2.15	30.0	1.30	1.07	1.08
1700.0	1730.0	2.62	2.25	2.04	1730.0	2.96	2.12	2.03	50.0	1.31	1.09	1.09
1800.0	1830.0	2.22	1.91	1.74	1830.0	2.75	1.92	1.91	70.0	1.32	1.12	1.13
1900.0	1930.0	1.93	1.68	1.54	1930.0	2.44	1.73	1.82	90.0	1.30	1.12	1.14
2000.0	2030.0	1.71	1.47	1.38	2030.0	2.20	1.61	1.78	110.0	1.35	1.14	1.11
2100.0	2130.0	1.52	1.31	1.23	2130.0	1.97	1.50	1.75	130.0	1.40	1.19	1.15
2200.0	2230.0	1.38	1.19	1.15	2230.0	1.77	1.42	1.74	150.0	1.44	1.23	1.18
2300.0	2330.0	1.27	1.10	1.17	2330.0	1.62	1.34	1.72	170.0	1.46	1.26	1.22
2400.0	2430.0	1.17	1.05	1.21	2430.0	1.51	1.30	1.72	190.0	1.46	1.26	1.20
2500.0	2530.0	1.13	1.07	1.23	2530.0	1.45	1.29	1.72	210.0	1.54	1.32	1.24
2600.0	2630.0	1.12	1.18	1.32	2630.0	1.42	1.28	1.72	230.0	1.61	1.38	1.28
2700.0	2730.0	1.15	1.26	1.38	2730.0	1.37	1.22	1.70	250.0	1.67	1.43	1.32
2800.0	2830.0	1.16	1.21	1.33	2830.0	1.29	1.20	1.72	270.0	1.69	1.45	1.34
2900.0	2930.0	1.23	1.07	1.07	2930.0	1.25	1.23	1.75	290.0	1.75	1.49	1.36
3000.0	3030.0	1.66	1.49	1.38	3030.0	1.22	1.28	1.80	310.0	1.84	1.56	1.41
3100.0	3130.0	2.06	1.87	1.74	3130.0	1.22	1.34	1.86	330.0	1.91	1.62	1.46
3200.0	3230.0	2.10	1.92	1.80	3230.0	1.27	1.42	1.92	350.0	2.00	1.69	1.52
3300.0	3330.0	2.06	1.88	1.78	3330.0	1.36	1.52	1.99	370.0	2.04	1.72	1.54
3400.0	3430.0	1.98	1.79	1.69	3430.0	1.49	1.62	2.06	390.0	2.11	1.78	1.59
3480.0	3510.0	1.90	1.72	1.61	3510.0	1.62	1.71	2.11	410.0	2.21	1.86	1.66
3580.0	3610.0	1.82	1.65	1.54	3610.0	1.81	1.83	2.19	430.0	2.33	1.96	1.73
3660.0	3690.0	1.76	1.61	1.52	3690.0	1.99	1.93	2.25	450.0	2.40	2.03	1.80
3760.0	3790.0	1.65	1.55	1.51	3790.0	2.24	2.02	2.25	470.0	2.44	2.07	1.83
3840.0	3870.0	1.60	1.53	1.53	3870.0	2.55	2.15	2.26	490.0	2.54	2.15	1.91
3940.0	3970.0	1.63	1.59	1.65	3970.0	3.03	2.42	2.38	510.0	2.66	2.25	1.99
4020.0	4050.0	1.68	1.67	1.77	4050.0	3.35	2.62	2.44	530.0	2.77	2.35	2.09
4120.0	4150.0	1.83	1.80	1.92	4150.0	3.79	2.80	2.48	550.0	2.85	2.43	2.16
4200.0	4230.0	2.05	1.97	2.06	4230.0	4.03	2.89	2.52	590.0	3.03	2.60	2.32
4300.0	4330.0	2.46	2.35	2.40	4330.0	4.36	2.98	2.46	610.0	3.14	2.69	2.40
4380.0	4410.0	2.75	2.63	2.69	4410.0	4.46	2.98	2.39	650.0	3.35	2.91	2.61
4480.0	4510.0	3.29	3.00	3.07	4510.0	4.57	2.97	2.24	670.0	3.46	3.00	2.71
4560.0	4590.0	3.77	3.42	3.35	4590.0	4.53	2.90	2.12	710.0	3.69	3.23	2.92
4660.0	4690.0	4.47	4.04	3.96	4690.0	4.32	2.70	1.89	730.0	3.84	3.37	3.05
4740.0	4770.0	4.87	4.38	4.25	4770.0	4.26	2.58	1.74	770.0	4.00	3.53	3.22
4840.0	4870.0	5.38	4.78	4.57	4870.0	3.86	2.33	1.53	790.0	4.09	3.60	3.29
4920.0	4950.0	5.52	4.86	4.59	4950.0	3.56	2.14	1.42	830.0	4.30	3.84	3.54
5020.0	5050.0	5.72	5.09	4.77	5050.0	2.98	1.87	1.35	850.0	4.50	4.01	3.68
5100.0	5130.0	5.83	5.16	4.79	5130.0	2.48	1.66	1.39	890.0	4.67	4.18	3.85
5200.0	5230.0	5.83	5.14	4.72	5230.0	1.95	1.51	1.59	910.0	4.69	4.25	3.95

REV. X3

MBA-18L

101012

Page 4 of 5



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS9100 CERTIFIED RoHS compliant
P.O. Box 350166, Brooklyn, New York 11235-0006 (718) 934-4500 Fax (718) 332-4661



The Design Engineers Search Engine finds the model you need, instantly • For detailed performance specs & shopping online see



Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+0	9	5	22	17	34	55	52	52	---
1	-	14	+0	25	18	34	26	34	38	59	68	56
2	>90	46	51	41	50	54	44	>69	48	59	59	>69
3	>90	65	64	67	>69	64	63	63	59	>69	64	>69
4	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
5	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
6	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
7	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
8	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
9	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
10	---	---	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 2400 MHz; -16.00 dBm.
LO IN: 2430 MHz; +4.00 dBm
IF OUT: 30 MHz; -21.37 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	10	19	16	38	32	54	55	60	72	---
1	-	14	+0	26	19	37	30	38	48	65	66	67
2	72	37	45	35	43	48	39	55	44	53	66	75
3	>90	47	47	51	47	45	45	48	45	56	54	66
4	>90	65	60	60	60	50	62	57	58	58	60	68
5	>90	71	68	74	70	71	66	67	70	61	63	62
6	>90	>79	>79	>79	77	78	77	65	77	71	78	65
7	>90	>79	>79	>79	>79	>79	>79	>79	78	>79	>79	76
8	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
9	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
10	---	---	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 2400 MHz; -6.00 dBm.
LO IN: 2430 MHz; +4.00 dBm
IF OUT: 30 MHz; -11.45 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.