

Frequency Mixer

MBA-18LH+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=30MHz (dB)			RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)			RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+5dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+7	+10	+13			+7	+10	+13			+7	+10	+13
1500.0	1530.0	8.07	7.36	7.13	1500.0	1530.0	14.06	15.46	15.01	1500.0	1530.0	1.10	0.97	0.87
1620.0	1650.0	7.73	6.94	6.60	1620.0	1650.0	11.48	12.12	11.41	1620.0	1650.0	1.03	1.00	0.89
1740.0	1770.0	7.32	6.64	6.35	1740.0	1770.0	9.83	12.00	11.24	1740.0	1770.0	1.07	0.99	0.85
1840.0	1870.0	6.90	6.33	6.12	1840.0	1870.0	10.79	11.05	9.95	1840.0	1870.0	1.08	0.92	0.78
1960.0	1990.0	6.50	6.13	5.96	1960.0	1990.0	10.42	11.37	12.09	1960.0	1990.0	1.07	0.78	0.66
2060.0	2090.0	6.39	6.04	5.87	2060.0	2090.0	15.50	17.10	16.89	2060.0	2090.0	1.02	0.77	0.66
2180.0	2210.0	6.31	6.01	5.86	2180.0	2210.0	17.09	17.43	16.79	2180.0	2210.0	0.92	0.66	0.52
2280.0	2310.0	6.26	6.07	5.98	2280.0	2310.0	13.36	13.38	13.82	2280.0	2310.0	0.71	0.45	0.34
2400.0	2430.0	6.01	5.80	5.68	2400.0	2430.0	13.24	14.05	14.00	2400.0	2430.0	0.68	0.43	0.32
2500.0	2530.0	5.91	5.68	5.55	2500.0	2530.0	12.42	13.53	14.50	2500.0	2530.0	0.69	0.41	0.31
2620.0	2650.0	5.89	5.60	5.45	2620.0	2650.0	12.22	16.25	17.06	2620.0	2650.0	0.74	0.48	0.36
2720.0	2750.0	5.82	5.48	5.33	2720.0	2750.0	12.64	13.92	18.77	2720.0	2750.0	0.90	0.61	0.43
2840.0	2870.0	5.69	5.51	5.44	2840.0	2870.0	12.92	17.51	19.90	2840.0	2870.0	1.04	0.59	0.42
2940.0	2970.0	5.79	5.69	5.71	2940.0	2970.0	11.52	14.56	16.29	2940.0	2970.0	1.54	1.05	0.80
3060.0	3090.0	6.81	6.61	6.50	3060.0	3090.0	12.69	16.95	20.69	3060.0	3090.0	1.91	1.32	1.12
3160.0	3190.0	6.99	6.63	6.41	3160.0	3190.0	16.14	13.84	11.52	3160.0	3190.0	1.55	1.23	1.05
3280.0	3310.0	6.74	6.37	6.12	3280.0	3310.0	11.75	11.86	10.52	3280.0	3310.0	1.37	1.14	1.02
3380.0	3410.0	6.57	6.27	6.09	3380.0	3410.0	10.25	10.46	9.95	3380.0	3410.0	1.41	1.15	1.02
3500.0	3530.0	6.22	5.91	5.73	3500.0	3530.0	10.16	10.28	10.48	3500.0	3530.0	1.47	1.22	1.16
3600.0	3630.0	6.08	5.78	5.59	3600.0	3630.0	10.30	10.95	11.25	3600.0	3630.0	1.60	1.34	1.18
3720.0	3750.0	5.92	5.57	5.39	3720.0	3750.0	10.01	11.30	12.61	3720.0	3750.0	1.70	1.46	1.30
3820.0	3850.0	5.95	5.66	5.42	3820.0	3850.0	9.65	10.61	11.74	3820.0	3850.0	1.64	1.37	1.26
3940.0	3970.0	5.84	5.59	5.40	3940.0	3970.0	10.96	12.28	13.14	3940.0	3970.0	1.61	1.27	1.20
4040.0	4070.0	5.55	5.36	5.22	4040.0	4070.0	11.30	12.71	13.44	4040.0	4070.0	1.70	1.32	1.21
4160.0	4190.0	5.43	5.22	5.13	4160.0	4190.0	12.08	13.72	14.33	4160.0	4190.0	1.63	1.15	1.01
4260.0	4290.0	5.62	5.34	5.22	4260.0	4290.0	10.39	12.12	12.90	4260.0	4290.0	1.48	0.96	0.89
4380.0	4410.0	5.76	5.46	5.37	4380.0	4410.0	10.82	12.58	13.08	4380.0	4410.0	1.57	1.04	0.94
4480.0	4510.0	5.89	5.60	5.53	4480.0	4510.0	10.82	11.81	12.96	4480.0	4510.0	1.78	1.22	1.06
4600.0	4630.0	5.95	5.55	5.44	4600.0	4630.0	11.26	11.57	13.53	4600.0	4630.0	1.60	1.20	1.08
4700.0	4730.0	6.12	5.64	5.52	4700.0	4730.0	14.10	13.97	14.80	4700.0	4730.0	1.34	1.03	0.93
4820.0	4850.0	6.48	5.96	5.84	4820.0	4850.0	17.66	15.90	16.83	4820.0	4850.0	1.15	0.86	0.75
4920.0	4950.0	6.70	6.26	6.16	4920.0	4950.0	18.66	15.99	17.26	4920.0	4950.0	1.08	0.77	0.62
5040.0	5070.0	6.88	6.51	6.45	5040.0	5070.0	16.79	16.66	17.27	5040.0	5070.0	1.03	0.64	0.49
5140.0	5170.0	7.06	6.74	6.73	5140.0	5170.0	13.44	18.30	17.93	5140.0	5170.0	0.94	0.54	0.39
5260.0	5290.0	7.30	7.00	7.00	5260.0	5290.0	11.92	17.89	18.49	5260.0	5290.0	0.86	0.54	0.36
5360.0	5390.0	7.66	7.30	7.24	5360.0	5390.0	11.32	17.47	17.45	5360.0	5390.0	0.75	0.56	0.39
5480.0	5510.0	8.24	7.82	7.66	5480.0	5510.0	11.35	20.45	16.21	5480.0	5510.0	0.60	0.47	0.40
5580.0	5610.0	8.88	8.45	8.27	5580.0	5610.0	12.21	20.29	16.41	5580.0	5610.0	0.45	0.44	0.38
5700.0	5730.0	9.98	9.51	9.12	5700.0	5730.0	12.76	18.52	14.68	5700.0	5730.0	0.22	0.35	0.51
5800.0	5830.0	11.12	10.47	9.92	5800.0	5830.0	14.66	22.11	15.63	5800.0	5830.0	-0.08	0.28	0.58

Frequency Mixer

MBA-18LH+

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)
		+10			+10			+10
900.0	1500.0	5.71	10.1	1600.0	7.36	1290.1	1920.0	10.25
849.6	1550.4	5.57	50.1	1640.0	7.18	1250.1	1960.0	9.37
799.2	1600.8	5.60	90.1	1680.0	7.28	1210.1	2000.0	8.63
748.9	1651.1	5.50	130.1	1720.0	7.34	1170.1	2040.0	7.91
698.5	1701.5	5.32	170.1	1760.0	7.48	1130.1	2080.0	7.26
648.1	1751.9	5.27	210.1	1800.0	7.46	1090.1	2120.0	6.72
597.7	1802.3	5.19	250.1	1840.0	7.67	1050.1	2160.0	6.27
547.4	1852.6	5.08	290.1	1880.0	7.68	1010.1	2200.0	6.09
497.0	1903.0	4.96	330.1	1920.0	7.68	970.1	2240.0	6.07
446.6	1953.4	4.99	350.1	1940.0	7.67	930.1	2280.0	6.07
396.2	2003.8	5.10	390.1	1980.0	7.57	890.1	2320.0	6.20
345.8	2054.2	5.30	410.1	2000.0	7.55	850.1	2360.0	6.24
295.5	2104.5	5.43	450.1	2040.0	7.55	810.1	2400.0	6.33
245.1	2154.9	5.51	470.1	2060.0	7.50	790.1	2420.0	6.38
194.7	2205.3	5.57	510.1	2100.0	7.50	750.1	2460.0	6.43
144.3	2255.7	5.62	530.1	2120.0	7.57	730.1	2480.0	6.42
94.0	2306.0	5.67	570.1	2160.0	7.56	690.1	2520.0	6.52
43.6	2356.4	5.74	590.1	2180.0	7.58	670.1	2540.0	6.59
10.0	2410.0	6.25	630.1	2220.0	7.73	630.1	2580.0	6.71
79.4	2479.4	5.83	650.1	2240.0	7.73	610.1	2600.0	6.85
148.9	2548.9	5.78	690.1	2280.0	7.79	570.1	2640.0	7.07
218.3	2618.3	5.73	710.1	2300.0	7.77	550.1	2660.0	7.08
264.6	2664.6	5.67	750.1	2340.0	7.84	510.1	2700.0	7.26
334.1	2734.1	5.46	770.1	2360.0	7.82	490.1	2720.0	7.41
380.4	2780.4	5.26	810.1	2400.0	7.71	450.1	2760.0	7.63
449.8	2849.8	4.96	830.1	2420.0	7.85	430.1	2780.0	7.83
496.1	2896.1	5.18	870.1	2460.0	7.81	390.1	2820.0	8.15
565.6	2965.6	5.60	890.1	2480.0	7.71	370.1	2840.0	8.26
611.9	3011.9	5.76	930.1	2520.0	7.71	330.1	2880.0	8.37
681.3	3081.3	6.05	950.1	2540.0	7.66	310.1	2900.0	8.26
727.6	3127.6	6.20	990.1	2580.0	7.75	270.1	2940.0	8.25
797.0	3197.0	6.64	1010.1	2600.0	7.78	250.1	2960.0	8.16
843.3	3243.3	6.87	1050.1	2640.0	7.94	210.1	3000.0	7.85
912.8	3312.8	7.43	1070.1	2660.0	8.20	190.1	3020.0	7.64
959.1	3359.1	7.83	1110.1	2700.0	8.52	150.1	3060.0	7.09
1028.5	3428.5	8.54	1130.1	2720.0	8.54	130.1	3080.0	6.90
1074.8	3474.8	8.97	1170.1	2760.0	9.02	90.1	3120.0	6.58
1144.3	3544.3	9.52	1190.1	2780.0	9.29	70.1	3140.0	6.55
1190.6	3590.6	10.12	1230.1	2820.0	9.86	30.1	3180.0	6.55
1260.0	3660.0	10.62	1250.1	2840.0	10.09	10.1	3200.0	6.75

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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
1530.0	28.23	32.78	39.42	11.69	12.26	12.24
1650.0	27.29	32.28	41.31	12.57	12.74	12.53
1770.0	26.54	31.82	41.40	13.61	13.43	13.17
1870.0	25.86	31.28	40.97	14.75	14.32	13.85
1990.0	24.83	30.70	40.70	16.02	15.46	14.84
2090.0	24.06	30.42	37.22	17.10	16.44	15.80
2210.0	23.80	29.70	34.15	18.63	18.05	17.51
2310.0	23.92	29.29	31.98	19.77	19.45	19.17
2430.0	24.56	28.73	29.21	21.13	21.49	21.60
2530.0	24.40	27.98	27.87	22.48	23.27	23.99
2650.0	23.89	26.83	26.80	24.07	25.25	26.45
2750.0	25.18	26.70	25.09	24.13	25.09	25.41
2870.0	25.42	24.54	22.70	23.51	23.42	22.87
2970.0	24.46	23.43	21.85	22.76	21.85	20.77
3090.0	24.36	24.46	23.74	22.54	20.89	19.88
3190.0	26.47	26.72	25.92	22.21	20.23	19.12
3310.0	29.40	28.62	26.66	20.57	19.02	17.74
3410.0	31.13	28.99	26.53	19.35	18.12	17.06
3530.0	32.77	28.74	25.55	17.95	17.29	16.44
3630.0	32.62	28.34	25.11	16.88	16.65	16.02
3750.0	31.73	27.90	24.67	15.59	15.78	15.66
3850.0	28.54	26.24	23.88	14.97	15.18	15.08
3970.0	24.18	22.32	21.00	14.34	14.58	14.84
4070.0	22.64	20.94	19.30	13.68	14.36	14.59
4190.0	23.07	20.61	19.26	12.97	13.60	14.29
4290.0	23.02	20.89	19.64	12.51	13.23	14.03
4410.0	22.08	20.39	19.18	12.01	12.74	13.64
4510.0	21.42	20.05	18.79	11.68	12.53	13.49
4630.0	20.42	20.32	18.93	11.27	12.34	13.33
4730.0	19.48	19.71	18.68	10.96	12.15	13.14
4850.0	19.16	19.50	18.72	10.66	11.86	12.98
4950.0	19.07	19.59	19.06	10.46	11.66	12.92
5070.0	18.96	19.98	19.88	10.12	11.42	12.74
5170.0	18.77	19.95	20.27	9.89	11.28	12.72
5290.0	18.58	19.82	20.57	9.81	11.28	12.79
5390.0	18.39	19.45	20.19	9.76	11.41	13.04
5510.0	17.89	18.65	18.76	9.82	11.74	13.64
5610.0	17.47	17.84	17.52	9.89	11.98	14.15
5730.0	16.54	16.44	16.22	10.00	12.14	14.20
5830.0	15.25	15.15	14.83	9.96	11.90	13.15

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+7	+10	+13
1500.0	1530.0	25.02	25.60	25.44
1620.0	1650.0	23.92	23.61	23.31
1740.0	1770.0	21.52	21.15	21.09
1840.0	1870.0	19.65	19.69	19.78
1960.0	1990.0	18.09	18.34	18.43
2060.0	2090.0	16.99	17.30	17.45
2180.0	2210.0	15.65	16.09	16.31
2280.0	2310.0	14.78	15.08	15.34
2400.0	2430.0	14.83	15.23	15.45
2500.0	2530.0	14.89	15.42	15.75
2620.0	2650.0	14.97	15.61	15.96
2720.0	2750.0	15.57	16.30	16.61
2840.0	2870.0	15.64	15.87	16.11
2940.0	2970.0	15.12	15.27	15.52
3060.0	3090.0	14.05	14.53	14.91
3160.0	3190.0	14.36	14.97	15.56
3280.0	3310.0	15.56	16.18	16.75
3380.0	3410.0	16.24	17.01	17.71
3500.0	3530.0	17.51	18.08	18.75
3600.0	3630.0	18.74	19.57	20.11
3720.0	3750.0	19.74	20.57	21.31
3820.0	3850.0	20.09	20.88	21.75
3940.0	3970.0	20.46	20.95	21.24
4040.0	4070.0	20.06	20.12	20.34
4160.0	4190.0	21.68	22.24	22.46
4260.0	4290.0	21.42	22.14	22.45
4380.0	4410.0	21.15	22.33	22.76
4480.0	4510.0	20.71	22.03	22.58
4600.0	4630.0	21.11	22.76	23.81
4700.0	4730.0	21.44	23.40	24.51
4820.0	4850.0	22.19	24.21	24.92
4920.0	4950.0	22.33	24.27	25.26
5040.0	5070.0	22.25	23.75	24.39
5140.0	5170.0	22.59	23.13	22.78
5260.0	5290.0	22.28	21.89	20.86
5360.0	5390.0	21.23	20.66	19.26
5480.0	5510.0	20.63	19.80	17.89
5580.0	5610.0	20.56	19.43	17.16
5700.0	5730.0	19.54	17.90	15.16
5800.0	5830.0	17.78	15.52	12.97

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Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)		
		@LO (dBm)		
		+7	+10	+13
1500.0	1530.0	5.02	4.40	4.10
1620.0	1650.0	4.26	3.84	3.56
1740.0	1770.0	3.45	3.15	2.96
1840.0	1870.0	2.87	2.65	2.50
1960.0	1990.0	2.34	2.16	2.05
2060.0	2090.0	2.00	1.89	1.83
2180.0	2210.0	1.78	1.69	1.66
2280.0	2310.0	1.66	1.60	1.57
2400.0	2430.0	1.49	1.48	1.52
2500.0	2530.0	1.39	1.42	1.50
2620.0	2650.0	1.26	1.32	1.46
2720.0	2750.0	1.19	1.34	1.49
2840.0	2870.0	1.27	1.40	1.51
2940.0	2970.0	1.27	1.35	1.43
3060.0	3090.0	1.46	1.44	1.42
3160.0	3190.0	1.68	1.60	1.53
3280.0	3310.0	1.82	1.71	1.60
3380.0	3410.0	1.89	1.76	1.66
3500.0	3530.0	1.94	1.77	1.62
3600.0	3630.0	1.92	1.76	1.61
3720.0	3750.0	1.87	1.70	1.54
3820.0	3850.0	1.77	1.63	1.50
3940.0	3970.0	1.51	1.39	1.32
4040.0	4070.0	1.25	1.15	1.09
4160.0	4190.0	1.16	1.13	1.16
4260.0	4290.0	1.15	1.16	1.21
4380.0	4410.0	1.09	1.24	1.33
4480.0	4510.0	1.22	1.43	1.54
4600.0	4630.0	1.28	1.60	1.84
4700.0	4730.0	1.47	1.71	1.95
4820.0	4850.0	1.82	2.03	2.24
4920.0	4950.0	2.04	2.23	2.42
5040.0	5070.0	2.36	2.48	2.63
5140.0	5170.0	2.53	2.61	2.71
5260.0	5290.0	2.54	2.52	2.57
5360.0	5390.0	2.73	2.58	2.56
5480.0	5510.0	2.80	2.56	2.42
5580.0	5610.0	2.99	2.61	2.35
5700.0	5730.0	2.90	2.45	2.15
5800.0	5830.0	2.77	2.37	2.18

LO (MHz)	LO VSWR (:1)		
	@LO (dBm)		
	+7	+10	+13
1530.0	4.17	3.17	3.22
1650.0	3.39	2.84	3.02
1770.0	2.99	2.70	2.93
1870.0	2.78	2.52	2.80
1990.0	2.37	2.25	2.67
2090.0	2.04	2.08	2.57
2210.0	1.79	1.90	2.43
2310.0	1.63	1.82	2.36
2430.0	1.43	1.70	2.26
2530.0	1.35	1.64	2.19
2650.0	1.36	1.63	2.17
2750.0	1.42	1.62	2.12
2870.0	1.34	1.52	2.03
2970.0	1.29	1.49	1.99
3090.0	1.24	1.49	2.00
3190.0	1.18	1.51	2.04
3310.0	1.14	1.57	2.14
3410.0	1.14	1.63	2.21
3530.0	1.19	1.71	2.30
3630.0	1.25	1.77	2.37
3750.0	1.33	1.82	2.39
3850.0	1.40	1.87	2.44
3970.0	1.43	1.85	2.42
4070.0	1.58	1.90	2.41
4190.0	1.82	1.98	2.42
4290.0	2.01	2.02	2.39
4410.0	2.27	2.10	2.32
4510.0	2.42	2.12	2.25
4630.0	2.61	2.11	2.09
4730.0	2.73	2.07	1.94
4850.0	2.80	1.99	1.72
4950.0	2.86	1.88	1.49
5070.0	2.80	1.75	1.27
5170.0	2.73	1.70	1.15
5290.0	2.48	1.59	1.25
5390.0	2.25	1.54	1.42
5510.0	2.00	1.61	1.70
5610.0	1.89	1.71	1.95
5730.0	1.82	1.89	2.19
5830.0	1.75	1.92	2.26

IF (OUT) (MHz)	IF VSWR @LO=3200MHz (:1)		
	@LO (dBm)		
	+7	+10	+13
10.0	1.02	1.19	1.35
30.0	1.05	1.15	1.30
50.0	1.08	1.14	1.28
70.0	1.11	1.19	1.33
90.0	1.11	1.21	1.35
110.0	1.09	1.17	1.31
130.0	1.14	1.15	1.27
150.0	1.20	1.18	1.27
190.0	1.20	1.21	1.31
210.0	1.21	1.17	1.26
250.0	1.31	1.22	1.25
270.0	1.33	1.25	1.28
310.0	1.33	1.20	1.20
330.0	1.39	1.25	1.22
370.0	1.44	1.29	1.25
390.0	1.44	1.28	1.23
430.0	1.54	1.35	1.27
450.0	1.57	1.39	1.30
490.0	1.58	1.39	1.29
510.0	1.62	1.43	1.33
550.0	1.73	1.54	1.42
570.0	1.72	1.54	1.42
610.0	1.82	1.64	1.52
630.0	1.89	1.71	1.59
670.0	1.93	1.76	1.64
690.0	1.98	1.82	1.70
730.0	2.17	2.00	1.89
750.0	2.19	2.04	1.93
790.0	2.29	2.15	2.06
810.0	2.45	2.31	2.21
850.0	2.55	2.43	2.34
870.0	2.63	2.52	2.43
910.0	2.89	2.79	2.71
930.0	3.02	2.90	2.81
970.0	3.21	3.10	3.01
990.0	3.35	3.26	3.18
1030.0	3.65	3.54	3.46
1050.0	3.81	3.69	3.59
1090.0	4.22	4.08	3.96
1110.0	4.29	4.16	4.04

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+4	7	1	15	9	33	33	40	39	---
1	-	9	+0	19	14	36	21	32	35	50	57	44
2	80	47	45	35	42	53	38	61	41	59	50	57
3	>90	60	62	62	>74	57	58	59	54	67	55	64
4	>90	>74	>74	>74	>74	65	>74	>74	74	72	69	>74
5	>90	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74
6	>90	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74	>74
7	>90	>74	>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: 2400 MHz; -10.00 dBm.
 LO IN: 2430 MHz; +10.00 dBm
 IF OUT: 30 MHz; -15.96 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	6	17	12	31	22	42	74	55	56	---
1	-	9	+0	20	15	37	24	36	51	53	52	57
2	60	36	40	29	35	50	34	46	37	51	54	57
3	>90	42	46	43	49	38	41	45	40	54	48	54
4	>90	61	49	54	53	42	53	54	51	55	57	57
5	>90	64	61	62	69	61	52	57	64	54	57	55
6	>90	74	>84	70	64	73	68	55	68	67	65	59
7	>90	81	71	71	76	78	>84	>84	64	76	79	67
8	>90	>84	83	79	>84	>84	81	81	82	73	>84	>84
9	>90	>84	>84	>84	82	82	>84	81	>84	>84	77	>84
10	---	---	>84	>84	>84	>84	>84	>84	>84	>84	>84	82
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 2400 MHz; 0.00 dBm.
 LO IN: 2430 MHz; +10.00 dBm
 IF OUT: 30 MHz; -6.06 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.