

# Frequency Mixer

# MBA-591+

## 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=+1dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+4	+7	+10			+4	+7	+10			+4	+7	+10
2000.0	2030.0	15.10	10.92	9.81	2000.0	2030.0	4.28	11.67	12.20	2000.0	2030.0	-1.42	0.79	0.64
2140.0	2170.0	10.27	8.58	8.09	2140.0	2170.0	11.66	10.17	10.00	2140.0	2170.0	1.37	1.60	1.26
2280.0	2310.0	8.21	7.66	7.42	2280.0	2310.0	8.15	8.34	8.24	2280.0	2310.0	2.01	1.69	1.45
2420.0	2450.0	6.86	6.55	6.41	2420.0	2450.0	5.99	6.31	6.55	2420.0	2450.0	2.40	2.05	1.81
2560.0	2590.0	6.62	6.33	6.10	2560.0	2590.0	5.21	5.73	6.40	2560.0	2590.0	2.15	1.89	1.67
2700.0	2730.0	5.85	5.62	5.46	2700.0	2730.0	5.93	6.45	6.89	2700.0	2730.0	2.17	1.87	1.70
2840.0	2870.0	5.48	5.20	4.99	2840.0	2870.0	5.56	6.30	6.91	2840.0	2870.0	2.05	1.72	1.56
2980.0	3010.0	5.14	4.89	4.70	2980.0	3010.0	5.63	6.65	7.55	2980.0	3010.0	2.14	1.87	1.70
3120.0	3150.0	5.06	4.75	4.55	3120.0	3150.0	5.52	6.76	8.04	3120.0	3150.0	2.03	1.78	1.65
3260.0	3290.0	5.01	4.71	4.53	3260.0	3290.0	5.54	6.88	8.06	3260.0	3290.0	2.03	1.71	1.56
3400.0	3430.0	5.16	4.86	4.70	3400.0	3430.0	6.22	7.68	8.87	3400.0	3430.0	1.84	1.55	1.40
3540.0	3570.0	5.29	4.97	4.80	3540.0	3570.0	6.42	8.12	9.15	3540.0	3570.0	1.74	1.41	1.25
3680.0	3710.0	5.42	5.16	5.06	3680.0	3710.0	7.31	8.95	9.96	3680.0	3710.0	1.44	1.13	1.01
3820.0	3850.0	5.68	5.40	5.26	3820.0	3850.0	7.91	9.72	10.82	3820.0	3850.0	1.23	0.94	0.83
3960.0	3990.0	5.77	5.53	5.47	3960.0	3990.0	8.36	10.30	11.60	3960.0	3990.0	1.11	0.81	0.73
4100.0	4130.0	6.20	5.94	5.88	4100.0	4130.0	9.76	10.70	12.51	4100.0	4130.0	0.80	0.58	0.53
4240.0	4270.0	6.27	6.07	6.05	4240.0	4270.0	11.50	11.26	12.88	4240.0	4270.0	0.71	0.50	0.46
4380.0	4410.0	6.62	6.48	6.51	4380.0	4410.0	13.11	13.93	12.69	4380.0	4410.0	0.60	0.47	0.41
4520.0	4550.0	6.76	6.71	6.78	4520.0	4550.0	13.35	13.18	14.23	4520.0	4550.0	0.54	0.40	0.39
4660.0	4690.0	6.56	6.42	6.46	4660.0	4690.0	12.19	12.93	12.88	4660.0	4690.0	0.74	0.52	0.44
4800.0	4830.0	6.99	6.74	6.66	4800.0	4830.0	15.42	14.82	15.72	4800.0	4830.0	0.46	0.36	0.35
4940.0	4970.0	7.06	6.84	6.76	4940.0	4970.0	15.52	14.94	15.54	4940.0	4970.0	0.38	0.30	0.28
5080.0	5110.0	7.17	6.99	6.92	5080.0	5110.0	14.40	14.93	15.14	5080.0	5110.0	0.40	0.28	0.24
5220.0	5250.0	7.10	6.93	6.85	5220.0	5250.0	14.38	15.46	15.33	5220.0	5250.0	0.39	0.27	0.22
5360.0	5390.0	6.96	6.76	6.66	5360.0	5390.0	13.02	15.63	14.40	5360.0	5390.0	0.53	0.38	0.29
5500.0	5530.0	7.55	7.30	7.11	5500.0	5530.0	15.66	17.18	14.82	5500.0	5530.0	0.38	0.29	0.25
5640.0	5670.0	7.26	7.02	6.86	5640.0	5670.0	16.30	19.18	16.03	5640.0	5670.0	0.46	0.35	0.29
5780.0	5810.0	7.34	7.05	6.87	5780.0	5810.0	14.72	16.37	15.73	5780.0	5810.0	0.45	0.35	0.30
5920.0	5950.0	7.31	6.97	6.77	5920.0	5950.0	13.61	15.71	15.28	5920.0	5950.0	0.51	0.39	0.34
6060.0	6090.0	7.25	6.81	6.59	6060.0	6090.0	11.55	14.74	15.05	6060.0	6090.0	0.61	0.46	0.39
6200.0	6230.0	7.32	6.70	6.44	6200.0	6230.0	9.56	14.04	15.37	6200.0	6230.0	0.68	0.46	0.41
6340.0	6370.0	7.91	6.94	6.57	6340.0	6370.0	9.99	13.23	15.31	6340.0	6370.0	0.63	0.57	0.49
6460.0	6490.0	8.30	7.12	6.74	6460.0	6490.0	8.01	11.41	13.45	6460.0	6490.0	0.45	0.44	0.41
6600.0	6630.0	8.50	6.96	6.53	6600.0	6630.0	6.72	9.92	13.49	6600.0	6630.0	0.32	0.46	0.44
6720.0	6750.0	9.21	6.91	6.43	6720.0	6750.0	5.44	9.32	13.42	6720.0	6750.0	-0.04	0.48	0.44
6860.0	6890.0	10.17	6.89	6.25	6860.0	6890.0	2.77	7.32	11.95	6860.0	6890.0	-0.56	0.66	0.58
6980.0	7010.0	10.00	6.98	6.32	6980.0	7010.0	3.14	7.62	12.13	6980.0	7010.0	-0.45	0.64	0.59
7120.0	7150.0	12.23	7.28	6.23	7120.0	7150.0	-0.71	7.04	10.20	7120.0	7150.0	-1.89	0.67	0.66
7240.0	7270.0	14.87	8.30	6.38	7240.0	7270.0	-3.28	6.29	9.27	7240.0	7270.0	-3.27	0.54	0.87
7380.0	7410.0	18.65	10.45	7.06	7380.0	7410.0	-5.19	3.56	10.45	7380.0	7410.0	-5.49	-0.18	1.16

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# Frequency Mixer

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## Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=4350MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2789.89MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=5910.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+7			+7			+7
2350.0	2000.0	10.93	10.1	2800.0	5.74	2730.1	3180.0	10.32
2222.4	2127.6	8.74	90.1	2880.0	5.38	2670.1	3240.0	9.87
2094.7	2255.3	8.29	170.1	2960.0	5.35	2590.1	3320.0	9.40
1967.1	2382.9	8.85	250.1	3040.0	5.40	2530.1	3380.0	9.38
1839.5	2510.5	9.08	330.1	3120.0	5.47	2450.1	3460.0	8.74
1711.8	2638.2	8.26	410.1	3200.0	5.64	2390.1	3520.0	8.01
1584.2	2765.8	8.06	490.1	3280.0	5.90	2310.1	3600.0	7.60
1456.5	2893.5	7.91	570.1	3360.0	6.05	2250.1	3660.0	7.55
1328.9	3021.1	7.92	650.1	3440.0	6.22	2170.1	3740.0	7.24
1201.3	3148.7	8.21	730.1	3520.0	6.36	2110.1	3800.0	7.37
1073.6	3276.4	8.52	810.1	3600.0	6.59	2030.1	3880.0	7.74
946.0	3404.0	8.50	890.1	3680.0	6.79	1970.1	3940.0	7.92
818.4	3531.6	8.42	970.1	3760.0	7.01	1890.1	4020.0	8.40
690.7	3659.3	8.15	1050.1	3840.0	7.15	1830.1	4080.0	8.85
563.1	3786.9	7.53	1130.1	3920.0	7.18	1750.1	4160.0	9.31
435.5	3914.5	6.92	1210.1	4000.0	7.34	1690.1	4220.0	9.35
307.8	4042.2	6.62	1290.1	4080.0	7.56	1610.1	4300.0	9.49
201.5	4148.5	6.40	1370.1	4160.0	7.68	1550.1	4360.0	9.62
73.8	4276.2	6.30	1450.1	4240.0	7.72	1470.1	4440.0	9.43
28.7	4378.7	6.30	1530.1	4320.0	7.71	1410.1	4500.0	9.05
141.2	4491.2	6.37	1610.1	4400.0	7.71	1330.1	4580.0	8.59
234.9	4584.9	6.68	1690.1	4480.0	7.73	1270.1	4640.0	8.39
347.3	4697.3	6.81	1770.1	4560.0	7.77	1190.1	4720.0	7.91
441.0	4791.0	6.41	1850.1	4640.0	7.92	1130.1	4780.0	7.63
553.4	4903.4	6.32	1930.1	4720.0	8.09	1050.1	4860.0	7.37
647.1	4997.1	6.39	2010.1	4800.0	8.18	990.1	4920.0	7.45
759.5	5109.5	6.41	2090.1	4880.0	8.35	910.1	5000.0	7.51
853.2	5203.2	6.64	2170.1	4960.0	8.52	850.1	5060.0	7.37
965.7	5315.7	6.85	2250.1	5040.0	8.80	770.1	5140.0	7.22
1059.4	5409.4	7.06	2330.1	5120.0	9.10	710.1	5200.0	7.06
1171.8	5521.8	7.38	2410.1	5200.0	8.75	630.1	5280.0	7.01
1265.5	5615.5	7.69	2490.1	5280.0	8.42	570.1	5340.0	6.96
1377.9	5727.9	8.09	2570.1	5360.0	8.42	490.1	5420.0	6.92
1471.6	5821.6	8.64	2650.1	5440.0	8.21	430.1	5480.0	6.88
1584.1	5934.1	9.28	2730.1	5520.0	7.68	350.1	5560.0	6.88
1677.7	6027.7	9.59	2830.1	5620.0	7.20	290.1	5620.0	6.82
1790.2	6140.2	9.87	2910.1	5700.0	7.01	210.1	5700.0	6.89
1883.9	6233.9	10.06	3010.1	5800.0	7.71	150.1	5760.0	6.94
1996.3	6346.3	10.24	3090.1	5880.0	8.71	70.1	5840.0	6.96
2090.0	6440.0	10.45	3190.1	5980.0	10.45	10.1	5900.0	7.29

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## Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+4	+7	+10	+4	+7	+10
2030.0	33.68	33.86	36.00	19.70	20.11	20.93
2170.0	32.50	34.01	37.06	20.14	21.05	22.32
2310.0	32.48	34.78	37.45	21.64	23.01	24.29
2450.0	31.93	34.11	36.54	24.00	25.13	25.74
2590.0	31.84	33.33	34.71	26.59	26.47	25.57
2730.0	31.48	32.84	33.97	28.18	25.89	24.65
2870.0	30.13	31.41	32.35	27.62	25.63	24.59
3010.0	29.51	30.79	31.53	26.30	25.30	24.58
3150.0	29.03	30.22	31.07	25.98	25.48	25.27
3290.0	28.90	30.25	31.10	25.88	25.97	26.05
3430.0	29.44	30.62	31.37	26.10	26.64	27.09
3570.0	29.50	31.19	32.09	26.29	27.36	28.22
3710.0	29.62	31.15	32.18	26.74	28.17	29.56
3850.0	30.15	31.86	32.66	26.97	28.74	30.39
3990.0	31.16	32.89	33.62	27.76	29.48	31.07
4130.0	32.02	33.68	34.20	28.60	29.98	30.93
4270.0	32.86	34.25	35.22	29.42	30.01	29.58
4410.0	34.28	35.36	35.42	29.71	29.06	27.78
4550.0	35.50	36.53	36.66	29.54	28.03	26.32
4690.0	36.74	37.26	37.23	29.15	27.03	25.50
4830.0	38.37	39.61	40.14	28.51	26.52	25.41
4970.0	39.54	40.22	40.64	27.70	26.14	25.44
5110.0	41.57	41.73	41.81	27.30	26.15	25.63
5250.0	44.06	43.17	42.69	27.35	26.47	26.06
5390.0	45.65	43.35	41.90	27.44	26.78	26.34
5530.0	46.28	44.01	42.76	27.58	27.05	26.85
5670.0	50.62	47.87	45.63	27.91	27.59	27.24
5810.0	53.58	53.71	51.18	28.14	27.84	27.67
5950.0	44.10	44.63	44.91	28.50	28.26	27.88
6090.0	38.79	38.92	38.93	28.73	28.46	28.06
6230.0	34.81	35.27	35.64	28.86	28.58	28.37
6370.0	32.60	33.34	33.90	29.30	28.98	28.74
6490.0	30.11	30.80	31.47	29.78	29.45	29.01
6630.0	27.83	28.76	29.29	30.82	30.43	29.48
6750.0	26.16	27.11	27.99	33.19	32.05	31.00
6890.0	23.95	25.23	26.05	37.26	36.24	33.67
7010.0	22.21	23.61	24.64	38.37	38.54	35.78
7150.0	19.83	20.98	22.47	34.45	35.16	35.63
7270.0	18.37	19.02	20.39	32.57	32.61	33.67
7410.0	16.12	16.43	17.60	33.86	34.13	35.30

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+4	+7	+10
2000.0	2030.0	32.00	27.48	25.97
2140.0	2170.0	27.15	24.54	23.57
2280.0	2310.0	23.49	22.09	21.36
2420.0	2450.0	21.86	20.94	20.46
2560.0	2590.0	21.17	20.73	20.66
2700.0	2730.0	21.33	21.39	21.64
2840.0	2870.0	22.54	22.84	23.24
2980.0	3010.0	24.27	24.73	25.21
3120.0	3150.0	25.71	26.31	26.72
3260.0	3290.0	27.47	28.15	28.65
3400.0	3430.0	29.33	30.09	30.44
3540.0	3570.0	30.54	31.78	32.27
3680.0	3710.0	31.12	32.66	33.46
3820.0	3850.0	32.37	33.56	34.08
3960.0	3990.0	34.45	35.94	36.48
4100.0	4130.0	35.67	37.14	37.62
4240.0	4270.0	36.65	38.45	39.12
4380.0	4410.0	38.41	39.71	40.31
4520.0	4550.0	39.41	41.00	41.43
4660.0	4690.0	38.99	40.42	41.53
4800.0	4830.0	40.05	40.84	41.84
4940.0	4970.0	40.89	41.64	42.05
5080.0	5110.0	41.52	42.26	42.85
5220.0	5250.0	42.62	43.22	44.05
5360.0	5390.0	42.69	43.33	43.22
5500.0	5530.0	43.26	43.29	43.47
5640.0	5670.0	45.12	44.83	45.40
5780.0	5810.0	47.21	47.42	47.05
5920.0	5950.0	50.13	48.88	48.38
6060.0	6090.0	49.86	48.08	47.13
6200.0	6230.0	47.06	45.48	44.35
6340.0	6370.0	46.01	44.80	44.08
6460.0	6490.0	44.62	43.44	42.86
6600.0	6630.0	42.22	41.18	40.35
6720.0	6750.0	39.09	38.54	37.73
6860.0	6890.0	34.77	34.65	33.78
6980.0	7010.0	32.08	32.14	31.54
7120.0	7150.0	29.71	30.16	29.62
7240.0	7270.0	28.99	29.66	29.29
7380.0	7410.0	28.93	29.64	29.47



# Frequency Mixer

# MBA-591+

## Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=5900MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+4	+7	+10		+4	+7	+10		+4	+7	+10
2000.0	2030.0	16.56	11.77	10.62	2030.0	28.03	16.11	13.39	10.0	1.37	1.59	1.79
2140.0	2170.0	9.63	7.83	7.22	2170.0	14.87	10.37	10.69	50.0	1.34	1.56	1.75
2280.0	2310.0	5.79	5.19	4.86	2310.0	7.80	8.08	9.58	90.0	1.37	1.59	1.79
2420.0	2450.0	4.15	3.76	3.50	2450.0	5.83	6.94	8.68	130.0	1.34	1.54	1.73
2560.0	2590.0	3.08	2.86	2.66	2590.0	5.07	6.37	8.05	170.0	1.37	1.58	1.77
2700.0	2730.0	2.31	2.19	2.10	2730.0	4.41	5.87	7.63	210.0	1.36	1.57	1.76
2840.0	2870.0	1.81	1.75	1.71	2870.0	3.93	5.23	6.78	250.0	1.37	1.55	1.73
2980.0	3010.0	1.41	1.39	1.40	3010.0	4.01	5.27	6.78	290.0	1.40	1.59	1.77
3120.0	3150.0	1.16	1.22	1.29	3150.0	3.90	4.91	6.17	330.0	1.38	1.54	1.71
3260.0	3290.0	1.18	1.30	1.41	3290.0	3.95	4.75	5.89	370.0	1.44	1.60	1.78
3400.0	3430.0	1.44	1.54	1.63	3430.0	4.08	4.64	5.59	410.0	1.41	1.55	1.72
3540.0	3570.0	1.75	1.86	1.96	3570.0	4.06	4.26	4.92	450.0	1.44	1.56	1.71
3680.0	3710.0	2.07	2.17	2.26	3710.0	4.03	4.03	4.57	490.0	1.45	1.57	1.73
3820.0	3850.0	2.41	2.46	2.54	3850.0	3.89	3.51	3.79	530.0	1.45	1.54	1.68
3960.0	3990.0	2.82	2.85	2.92	3990.0	3.87	3.22	3.33	570.0	1.50	1.59	1.71
4100.0	4130.0	3.17	3.16	3.21	4130.0	3.56	2.75	2.66	610.0	1.49	1.55	1.66
4240.0	4270.0	3.62	3.54	3.57	4270.0	3.13	2.26	2.10	650.0	1.56	1.59	1.68
4380.0	4410.0	3.82	3.73	3.73	4410.0	2.58	1.78	1.64	690.0	1.57	1.58	1.66
4520.0	4550.0	4.07	4.00	4.04	4550.0	2.11	1.35	1.30	730.0	1.62	1.60	1.65
4660.0	4690.0	4.07	3.73	3.66	4690.0	1.62	1.04	1.40	770.0	1.66	1.62	1.65
4800.0	4830.0	4.40	3.98	3.81	4830.0	1.34	1.30	1.80	810.0	1.71	1.64	1.64
4940.0	4970.0	4.53	4.13	3.90	4970.0	1.26	1.64	2.25	850.0	1.81	1.70	1.67
5080.0	5110.0	4.55	4.17	3.89	5110.0	1.51	2.10	2.86	890.0	1.89	1.75	1.70
5220.0	5250.0	4.30	3.93	3.65	5250.0	1.82	2.54	3.40	930.0	2.01	1.84	1.75
5360.0	5390.0	4.32	3.95	3.56	5390.0	2.19	2.97	3.90	970.0	2.12	1.94	1.82
5500.0	5530.0	4.68	4.37	3.99	5530.0	2.73	3.61	4.67	990.0	2.17	1.98	1.86
5640.0	5670.0	4.74	4.42	4.07	5670.0	3.18	4.00	5.02	1030.0	2.27	2.05	1.91
5780.0	5810.0	4.80	4.47	4.14	5810.0	3.78	4.53	5.54	1050.0	2.33	2.10	1.95
5920.0	5950.0	4.64	4.29	3.98	5950.0	4.54	5.10	6.07	1090.0	2.41	2.17	2.01
6060.0	6090.0	4.57	4.11	3.80	6090.0	5.36	5.61	6.46	1110.0	2.46	2.22	2.05
6200.0	6230.0	4.35	3.76	3.45	6230.0	6.37	6.11	6.78	1150.0	2.60	2.34	2.15
6340.0	6370.0	4.57	3.79	3.42	6370.0	7.47	6.58	7.02	1170.0	2.69	2.42	2.22
6460.0	6490.0	4.62	3.76	3.44	6490.0	8.39	7.00	7.22	1210.0	2.80	2.52	2.30
6600.0	6630.0	4.41	3.41	3.01	6630.0	9.33	7.44	7.44	1230.0	2.88	2.58	2.36
6720.0	6750.0	4.41	3.15	2.73	6750.0	10.13	7.90	7.53	1270.0	3.15	2.84	2.59
6860.0	6890.0	4.22	2.86	2.34	6890.0	10.96	8.55	7.76	1290.0	3.15	2.84	2.60
6980.0	7010.0	3.62	2.56	2.11	7010.0	11.17	8.86	8.05	1330.0	3.37	3.04	2.77
7120.0	7150.0	3.65	2.52	1.93	7150.0	11.69	9.90	8.47	1350.0	3.58	3.22	2.94
7240.0	7270.0	3.72	2.55	1.90	7270.0	11.77	10.69	9.18	1390.0	3.73	3.38	3.09
7380.0	7410.0	3.86	2.76	1.99	7410.0	10.56	10.19	9.48	1410.0	3.79	3.42	3.12

## Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(dBc)										
0	-	-	2	43	7	42	14	---	---	---	---	---
1	-	33	+0	47	59	40	40	58	---	---	---	---
2	>90	>70	62	60	64	>70	56	>70	53	---	---	---
3	>90	>70	>70	>70	69	>70	>70	>70	>70	>70	---	---
4	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	---
5	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
6	---	---	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
7	---	---	---	>70	>70	>70	>70	>70	>70	>70	>70	>70
8	---	---	---	---	>70	>70	>70	>70	>70	>70	>70	>70
9	---	---	---	---	---	>70	>70	>70	>70	>70	>70	>70
10	---	---	---	---	---	---	>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: 4350 MHz; -14.00 dBm.  
 LO IN: 4380 MHz; +7.00 dBm  
 IF OUT: 30 MHz; -20.4 dBm

RF HARMONICS ORDER

	(-dBm)	(dBc)										
0	-	-	12	53	17	53	27	---	---	---	---	---
1	-	33	+0	47	60	42	40	61	---	---	---	---
2	75	72	52	51	55	>80	48	68	45	---	---	---
3	>90	58	>80	>80	48	77	>80	63	65	77	---	---
4	>90	>80	>80	>80	>80	76	>80	>80	67	>80	62	---
5	>90	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
6	---	---	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
7	---	---	---	>80	>80	>80	>80	>80	>80	>80	>80	>80
8	---	---	---	---	>80	>80	>80	>80	>80	>80	>80	>80
9	---	---	---	---	---	>80	>80	>80	>80	>80	>80	>80
10	---	---	---	---	---	---	>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: 4350 MHz; -4.00 dBm.  
 LO IN: 4380 MHz; +7.00 dBm  
 IF OUT: 30 MHz; -10.46 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.