

# Frequency Mixer

# MCA1T-60MH+

## 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=+9dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+10	+13	+16			+10	+13	+16			+10	+13	+16
1700.0	1730.0	6.56	6.18	5.93	1700.0	1730.0	19.58	17.32	16.91	1700.0	1730.0	2.30	1.99	1.83
1852.0	1882.0	6.43	6.14	5.95	1852.0	1882.0	23.62	20.50	18.64	1852.0	1882.0	1.58	1.39	1.31
1950.0	1980.0	6.39	6.07	5.91	1950.0	1980.0	26.15	21.63	18.87	1950.0	1980.0	1.33	1.20	1.15
2048.0	2078.0	6.44	6.17	5.96	2048.0	2078.0	21.98	20.59	19.07	2048.0	2078.0	1.27	1.12	1.14
2244.0	2274.0	5.98	5.76	5.70	2244.0	2274.0	19.21	20.23	22.03	2244.0	2274.0	1.06	0.83	0.74
2342.0	2372.0	5.97	5.84	5.82	2342.0	2372.0	19.72	21.38	23.31	2342.0	2372.0	1.05	0.77	0.69
2440.0	2470.0	5.87	5.79	5.81	2440.0	2470.0	21.69	22.54	24.43	2440.0	2470.0	0.95	0.62	0.51
2538.0	2568.0	5.84	5.76	5.78	2538.0	2568.0	20.99	23.11	24.09	2538.0	2568.0	1.02	0.61	0.45
2734.0	2764.0	6.48	6.17	6.04	2734.0	2764.0	21.88	22.02	23.62	2734.0	2764.0	1.21	0.91	0.75
2832.0	2862.0	7.09	6.57	6.29	2832.0	2862.0	25.43	20.87	21.63	2832.0	2862.0	1.17	0.98	0.87
2930.0	2960.0	7.54	6.94	6.52	2930.0	2960.0	27.87	21.43	21.61	2930.0	2960.0	0.89	0.79	0.80
3028.0	3058.0	7.62	7.04	6.66	3028.0	3058.0	20.04	20.30	19.66	3028.0	3058.0	0.88	0.76	0.76
3224.0	3254.0	7.76	7.12	6.74	3224.0	3254.0	17.58	20.17	20.88	3224.0	3254.0	0.76	0.57	0.56
3322.0	3352.0	7.90	7.17	6.76	3322.0	3352.0	16.53	19.08	20.71	3322.0	3352.0	0.82	0.63	0.55
3420.0	3450.0	7.95	7.12	6.74	3420.0	3450.0	16.57	17.60	19.73	3420.0	3450.0	0.77	0.64	0.59
3518.0	3548.0	7.90	7.11	6.70	3518.0	3548.0	16.64	16.10	18.18	3518.0	3548.0	0.88	0.63	0.60
3714.0	3744.0	7.80	6.81	6.50	3714.0	3744.0	19.20	16.79	17.26	3714.0	3744.0	1.24	0.71	0.56
3812.0	3842.0	8.51	7.23	6.58	3812.0	3842.0	16.21	16.85	18.16	3812.0	3842.0	0.65	0.43	0.43
3910.0	3940.0	8.56	7.44	6.80	3910.0	3940.0	14.70	16.14	17.08	3910.0	3940.0	0.64	0.38	0.39
4008.0	4038.0	8.53	7.41	6.88	4008.0	4038.0	17.13	18.44	20.70	4008.0	4038.0	0.69	0.52	0.45
4204.0	4234.0	8.68	6.89	6.54	4204.0	4234.0	17.56	16.77	19.75	4204.0	4234.0	0.35	0.58	0.46
4302.0	4332.0	8.52	6.72	6.30	4302.0	4332.0	15.17	16.11	17.11	4302.0	4332.0	0.29	0.49	0.47
4400.0	4430.0	7.77	6.52	6.21	4400.0	4430.0	15.28	15.98	16.63	4400.0	4430.0	0.63	0.57	0.45
4530.0	4560.0	7.03	6.12	6.01	4530.0	4560.0	17.54	19.27	17.44	4530.0	4560.0	0.96	0.63	0.43
4674.0	4704.0	7.94	6.94	6.49	4674.0	4704.0	17.40	23.17	19.30	4674.0	4704.0	0.84	0.85	0.85
4746.0	4776.0	7.84	7.02	6.57	4746.0	4776.0	16.27	17.40	17.00	4746.0	4776.0	0.84	0.82	0.93
4818.0	4848.0	7.42	6.79	6.53	4818.0	4848.0	15.85	16.23	16.58	4818.0	4848.0	0.99	0.87	0.91
4890.0	4920.0	7.27	6.75	6.61	4890.0	4920.0	16.61	16.16	16.34	4890.0	4920.0	0.93	0.79	0.76
5034.0	5064.0	7.02	6.64	6.50	5034.0	5064.0	16.81	16.46	16.35	5034.0	5064.0	0.84	0.70	0.69
5106.0	5136.0	6.92	6.61	6.48	5106.0	5136.0	18.12	17.11	16.54	5106.0	5136.0	0.87	0.66	0.61
5178.0	5208.0	7.02	6.68	6.44	5178.0	5208.0	19.59	18.04	17.01	5178.0	5208.0	0.83	0.59	0.60
5250.0	5280.0	7.18	6.80	6.51	5250.0	5280.0	18.81	17.71	16.66	5250.0	5280.0	0.98	0.69	0.65
5394.0	5424.0	6.99	6.57	6.29	5394.0	5424.0	18.24	17.60	16.26	5394.0	5424.0	1.24	0.91	0.86
5466.0	5496.0	7.25	6.74	6.40	5466.0	5496.0	16.98	18.31	16.75	5466.0	5496.0	1.26	0.81	0.78
5538.0	5568.0	7.26	6.51	6.17	5538.0	5568.0	15.75	17.80	16.37	5538.0	5568.0	1.57	1.16	1.09
5610.0	5640.0	7.88	6.46	6.11	5610.0	5640.0	17.29	17.43	16.81	5610.0	5640.0	1.29	1.34	1.28
5754.0	5784.0	10.73	6.85	6.33	5754.0	5784.0	10.00	16.81	17.64	5754.0	5784.0	-0.39	1.38	1.16
5826.0	5856.0	12.08	7.05	6.25	5826.0	5856.0	9.97	14.61	18.14	5826.0	5856.0	-0.88	1.55	1.27
5898.0	5928.0	12.45	7.54	6.32	5898.0	5928.0	13.91	11.67	18.67	5898.0	5928.0	-0.85	1.49	1.23
6000.0	6030.0	14.47	8.18	6.62	6000.0	6030.0	8.57	10.75	17.00	6000.0	6030.0	-1.75	1.96	1.29

REV. X2  
MCA1T-60MH+  
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# Frequency Mixer

# MCA1T-60MH+

## Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=3850MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1700MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=6000MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+13			+13			+13
2000.0	1850.0	8.14	10.0	1710.0	6.78	1999.9	4000.1	9.02
1915.0	1935.0	7.60	38.0	1738.0	6.00	1949.9	4050.1	8.79
1830.0	2020.0	7.79	66.0	1766.0	5.94	1899.9	4100.1	8.34
1745.0	2105.0	8.54	122.0	1822.0	5.85	1849.9	4150.1	8.27
1660.0	2190.0	7.09	150.0	1850.0	5.82	1799.9	4200.1	8.88
1575.0	2275.0	7.80	206.0	1906.0	5.81	1749.9	4250.1	9.15
1490.0	2360.0	8.19	234.0	1934.0	5.74	1699.9	4300.1	9.66
1405.0	2445.0	8.59	350.0	2050.0	5.69	1649.9	4350.1	9.51
1320.0	2530.0	8.86	385.0	2085.0	5.81	1599.9	4400.1	9.68
1235.0	2615.0	9.03	455.0	2155.0	5.83	1549.9	4450.1	9.59
1110.0	2740.0	9.41	490.0	2190.0	5.63	1499.9	4500.1	9.63
1000.0	2850.0	9.47	560.0	2260.0	5.66	1449.9	4550.1	9.52
890.0	2960.0	9.25	595.0	2295.0	5.86	1399.9	4600.1	9.35
780.0	3070.0	8.39	665.0	2365.0	5.88	1349.9	4650.1	9.06
670.0	3180.0	7.51	700.0	2400.0	6.17	1299.9	4700.1	8.93
560.0	3290.0	6.99	735.0	2435.0	6.19	1249.9	4750.1	8.48
450.0	3400.0	6.82	805.0	2505.0	6.45	1199.9	4800.1	8.36
340.0	3510.0	6.65	840.0	2540.0	6.59	1149.9	4850.1	8.04
230.0	3620.0	6.58	910.0	2610.0	6.86	1099.9	4900.1	8.03
120.0	3730.0	6.60	945.0	2645.0	6.97	1049.9	4950.1	7.94
10.0	3860.0	7.46	1015.0	2715.0	7.01	970.0	5030.0	8.06
30.0	3880.0	6.92	1050.0	2750.0	6.90	922.0	5078.0	8.04
60.0	3910.0	7.06	1120.0	2820.0	6.89	874.0	5126.0	7.75
90.0	3940.0	7.14	1155.0	2855.0	6.74	826.0	5174.0	7.53
250.0	4100.0	6.88	1225.0	2925.0	6.70	778.0	5222.0	7.56
370.0	4220.0	7.22	1260.0	2960.0	6.78	730.0	5270.0	7.49
490.0	4340.0	7.30	1431.0	3131.0	6.67	682.0	5318.0	7.60
610.0	4460.0	7.24	1461.0	3161.0	6.68	634.0	5366.0	7.55
730.0	4580.0	7.24	1491.0	3191.0	6.61	586.0	5414.0	7.49
850.0	4700.0	7.45	1551.0	3251.0	6.47	538.0	5462.0	7.47
970.0	4820.0	7.58	1581.0	3281.0	6.60	490.0	5510.0	7.17
1090.0	4940.0	7.95	1641.0	3341.0	6.44	442.0	5558.0	7.33
1210.0	5060.0	8.08	1671.0	3371.0	6.34	394.0	5606.0	7.16
1335.0	5185.0	8.05	1731.0	3431.0	6.74	346.0	5654.0	7.24
1405.0	5255.0	8.22	1761.0	3461.0	6.72	298.0	5702.0	7.36
1510.0	5360.0	8.12	1821.0	3521.0	7.01	250.0	5750.0	7.47
1615.0	5465.0	8.41	1851.0	3551.0	6.99	202.0	5798.0	7.33
1720.0	5570.0	9.43	1911.0	3611.0	7.49	154.0	5846.0	7.57
1825.0	5675.0	9.63	1941.0	3641.0	7.23	106.0	5894.0	7.46
1930.0	5780.0	9.47	2001.0	3701.0	7.36	10.0	5990.0	8.18

# Frequency Mixer

# MCA1T-60MH+

## Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)			RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)					@LO (dBm)		
	+10	+13	+16	+10	+13	+16			+10	+13	+16
1660.0	31.46	31.18	31.18	15.81	18.24	20.55	1700.0	1730.0	14.39	13.53	12.91
1730.0	34.44	33.91	33.59	16.91	19.47	21.49	1852.0	1882.0	18.74	18.28	17.69
1882.0	44.75	41.44	39.40	18.94	21.06	22.30	1950.0	1980.0	20.12	20.17	20.23
1980.0	41.63	39.06	37.34	19.73	21.18	21.44	2048.0	2078.0	22.57	22.97	23.06
2176.0	37.02	33.92	31.78	19.47	19.22	18.36	2244.0	2274.0	22.75	21.46	20.21
2274.0	35.74	33.34	31.26	19.95	18.52	17.27	2342.0	2372.0	20.61	19.65	18.90
2372.0	33.98	31.69	29.98	19.09	17.69	16.59	2440.0	2470.0	18.06	17.48	17.02
2470.0	32.99	30.82	29.28	18.71	17.17	16.13	2538.0	2568.0	17.34	16.72	16.28
2666.0	33.45	32.02	30.94	17.87	16.76	15.98	2734.0	2764.0	18.59	18.31	18.06
2764.0	34.02	33.42	32.77	17.42	16.65	16.06	2832.0	2862.0	20.36	19.94	19.62
2862.0	32.37	32.43	32.23	16.92	16.55	16.20	2930.0	2960.0	20.93	20.66	20.25
2960.0	31.80	32.17	32.30	16.61	16.63	16.54	3028.0	3058.0	19.36	19.33	19.17
3156.0	31.49	31.54	31.27	16.02	16.89	17.51	3224.0	3254.0	18.67	18.87	18.96
3254.0	31.08	31.09	31.02	15.41	16.75	17.86	3322.0	3352.0	19.36	19.50	19.55
3352.0	32.21	31.75	31.37	15.00	16.75	18.43	3420.0	3450.0	20.67	20.77	20.81
3450.0	32.56	31.24	30.32	15.12	17.05	18.97	3518.0	3548.0	24.68	24.79	24.82
3646.0	34.97	31.17	28.66	16.27	16.93	16.66	3714.0	3744.0	20.60	20.10	19.75
3744.0	35.00	30.97	28.08	17.71	16.31	14.67	3812.0	3842.0	15.64	15.36	15.18
3842.0	33.00	31.05	28.27	19.88	16.38	14.09	3910.0	3940.0	13.43	13.28	13.18
3940.0	32.46	32.15	29.23	20.76	15.92	13.52	4008.0	4038.0	12.52	12.54	12.45
4136.0	30.31	32.03	29.83	20.96	16.77	13.80	4204.0	4234.0	11.50	11.49	11.40
4234.0	30.08	32.59	30.83	20.10	17.02	14.49	4302.0	4332.0	11.72	11.88	11.82
4332.0	29.74	31.42	31.40	19.76	17.18	14.94	4400.0	4430.0	12.32	12.41	12.43
4430.0	27.45	28.50	28.25	19.44	17.21	15.24	4530.0	4560.0	12.63	12.71	12.88
4632.0	25.71	26.70	25.88	18.64	17.15	15.74	4674.0	4704.0	13.07	13.09	13.23
4704.0	25.67	26.69	26.83	18.64	17.33	16.11	4746.0	4776.0	12.76	12.69	12.74
4776.0	23.59	24.57	25.15	17.88	16.93	16.11	4818.0	4848.0	12.63	12.44	12.41
4848.0	22.08	22.91	23.38	17.52	16.94	16.47	4890.0	4920.0	12.41	12.18	12.09
4992.0	20.54	21.33	21.88	16.58	16.79	17.05	5034.0	5064.0	12.44	12.09	12.01
5064.0	19.31	20.31	21.04	15.93	16.62	17.34	5106.0	5136.0	12.32	11.97	11.89
5136.0	18.59	19.67	20.44	15.55	16.65	17.78	5178.0	5208.0	12.29	11.95	11.92
5208.0	17.96	19.11	19.93	14.96	16.48	18.00	5250.0	5280.0	12.08	11.73	11.77
5352.0	17.70	19.22	20.44	14.17	16.43	18.70	5394.0	5424.0	12.84	12.73	12.86
5424.0	17.55	19.03	20.14	13.88	16.35	18.76	5466.0	5496.0	12.76	12.55	12.53
5496.0	18.07	19.59	20.70	13.58	16.51	19.36	5538.0	5568.0	14.54	14.84	15.00
5568.0	18.52	19.98	21.02	13.54	16.79	19.75	5610.0	5640.0	15.55	16.58	16.69
5712.0	18.79	19.65	20.27	10.89	12.90	15.24	5754.0	5784.0	17.07	17.76	17.85
5784.0	20.24	20.62	20.99	10.87	12.75	15.18	5826.0	5856.0	20.37	20.49	20.51
5856.0	21.70	21.72	22.01	11.08	12.86	15.22	5898.0	5928.0	24.72	23.97	23.00
6000.0	22.69	22.61	23.14	11.48	13.22	15.20	6000.0	6030.0	31.13	28.50	25.51

# Frequency Mixer

# MCA1T-60MH+

## Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=6000MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+10	+13	+16		+10	+13	+16		+10	+13	+16
1700.0	1730.0	2.49	2.33	2.23	1660.0	3.39	4.02	5.10	10.0	4.01	1.83	1.09
1852.0	1882.0	3.11	2.97	2.88	1730.0	2.64	3.42	4.52	25.0	3.98	1.77	1.05
1950.0	1980.0	3.23	3.05	2.94	1882.0	1.85	2.63	3.57	40.0	3.96	1.74	1.08
2048.0	2078.0	3.46	3.23	3.06	1980.0	1.66	2.37	3.20	70.0	3.91	1.75	1.13
2244.0	2274.0	3.06	2.87	2.72	2176.0	1.28	1.86	2.56	85.0	3.98	1.79	1.17
2342.0	2372.0	2.79	2.66	2.57	2274.0	1.24	1.81	2.49	115.0	4.01	1.78	1.25
2440.0	2470.0	2.47	2.36	2.30	2372.0	1.21	1.79	2.47	130.0	3.99	1.78	1.25
2538.0	2568.0	2.38	2.20	2.08	2470.0	1.23	1.82	2.52	194.0	4.11	1.89	1.40
2734.0	2764.0	2.98	2.71	2.52	2666.0	1.56	2.12	2.86	225.0	4.21	1.97	1.49
2832.0	2862.0	3.82	3.44	3.18	2764.0	1.75	2.32	3.07	287.0	4.51	2.14	1.65
2930.0	2960.0	4.37	3.97	3.60	2862.0	1.98	2.54	3.31	318.0	4.63	2.19	1.68
3028.0	3058.0	4.54	4.16	3.81	2960.0	2.26	2.79	3.55	380.0	5.18	2.41	1.85
3224.0	3254.0	4.55	4.13	3.82	3156.0	2.94	3.31	4.02	411.0	5.31	2.45	1.88
3322.0	3352.0	4.67	4.22	3.91	3254.0	3.38	3.59	4.22	473.0	5.61	2.62	2.02
3420.0	3450.0	4.68	4.10	3.80	3352.0	3.82	3.79	4.31	504.0	5.80	2.66	2.05
3518.0	3548.0	4.45	3.84	3.49	3450.0	4.48	4.16	4.49	535.0	5.93	2.71	2.07
3714.0	3744.0	3.81	3.16	2.76	3646.0	5.79	4.77	4.66	597.0	6.44	2.85	2.16
3812.0	3842.0	3.70	3.15	2.71	3744.0	6.41	4.85	4.50	628.0	6.70	2.96	2.22
3910.0	3940.0	3.35	2.89	2.56	3842.0	7.12	5.18	4.67	690.0	7.02	3.06	2.26
4008.0	4038.0	3.15	2.65	2.33	3940.0	7.60	5.12	4.54	721.0	7.26	3.15	2.31
4204.0	4234.0	3.17	2.25	1.94	4136.0	9.62	5.31	4.05	783.0	7.51	3.26	2.39
4302.0	4332.0	3.30	2.40	1.90	4234.0	9.31	5.44	4.05	814.0	7.73	3.40	2.47
4400.0	4430.0	3.23	2.46	1.94	4332.0	8.79	5.08	3.76	876.0	7.85	3.52	2.52
4530.0	4560.0	2.69	2.09	1.69	4430.0	7.93	4.56	3.37	907.0	7.89	3.56	2.50
4674.0	4704.0	3.06	2.48	2.00	4632.0	5.70	3.25	2.37	969.0	8.01	3.70	2.55
4746.0	4776.0	2.89	2.45	2.03	4704.0	5.03	2.82	2.01	1000.0	8.02	3.74	2.58
4818.0	4848.0	2.91	2.50	2.10	4776.0	4.02	2.35	1.71	1164.0	8.08	4.02	2.65
4890.0	4920.0	2.99	2.55	2.21	4848.0	3.17	1.92	1.46	1208.0	8.11	4.09	2.62
5034.0	5064.0	2.36	2.07	1.79	4992.0	2.10	1.38	1.34	1252.0	8.24	4.18	2.63
5106.0	5136.0	2.66	2.36	2.05	5064.0	1.71	1.28	1.49	1340.0	7.99	4.37	2.63
5178.0	5208.0	2.27	2.05	1.83	5136.0	1.50	1.35	1.70	1384.0	7.53	4.30	2.55
5250.0	5280.0	2.05	1.84	1.63	5208.0	1.48	1.55	1.97	1472.0	7.45	4.46	2.56
5394.0	5424.0	2.47	2.32	2.13	5352.0	2.00	2.14	2.61	1516.0	7.67	4.69	2.62
5466.0	5496.0	2.06	1.90	1.78	5424.0	2.44	2.53	3.01	1604.0	7.22	5.02	2.56
5538.0	5568.0	2.53	2.28	2.11	5496.0	3.05	2.96	3.41	1648.0	6.87	5.21	2.56
5610.0	5640.0	3.18	2.72	2.55	5568.0	3.90	3.45	3.73	1736.0	6.84	5.44	2.55
5754.0	5784.0	3.70	2.50	2.29	5712.0	5.74	4.72	4.56	1780.0	7.34	5.62	2.63
5826.0	5856.0	5.42	3.48	2.91	5784.0	6.56	5.72	5.05	1868.0	8.39	5.63	2.63
5898.0	5928.0	4.79	3.53	2.85	5856.0	7.64	7.12	5.86	1912.0	8.37	5.46	2.63
6000.0	6030.0	5.40	3.95	3.18	6000.0	9.82	9.30	8.14	2000.0	8.04	5.06	2.83

## Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+9	23	22	49	18	49	---	---	---	---
1	-	9	+0	25	22	42	45	53	51	---	---	---
2	76	49	43	49	42	49	67	52	50	69	---	---
3	>90	66	59	71	56	63	61	73	70	70	>77	---
4	>90	>77	>77	>77	>77	>77	76	>77	>77	>77	74	>77
5	>90	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77
6	>90	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77
7	---	---	>77	>77	>77	>77	>77	>77	>77	>77	>77	>77
8	---	---	---	>77	76	>77	>77	>77	>77	>77	>77	>77
9	---	---	---	---	>77	75	>77	>77	>77	>77	>77	>77
10	---	---	---	---	---	>77	>77	>77	>77	>77	>77	>77
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

Test conditions: RF IN: 3800 MHz; -6.00 dBm.  
 LO IN: 3830 MHz; +13.00 dBm  
 IF OUT: 30 MHz; -13.04 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	1	33	34	47	35	75	---	---	---	---
1	-	9	+0	29	21	53	48	52	68	---	---	---
2	56	38	36	39	35	42	57	49	48	83	---	---
3	86	46	38	51	43	42	48	56	61	66	69	---
4	>90	61	68	61	54	58	51	56	76	61	62	81
5	>90	>87	76	75	61	82	51	64	55	75	68	68
6	>90	>87	74	81	80	82	73	78	67	74	85	73
7	---	---	>87	>87	>87	>87	70	>87	72	67	79	81
8	---	---	---	>87	81	>87	>87	>87	77	83	73	76
9	---	---	---	---	>87	>87	>87	>87	83	>87	78	79
10	---	---	---	---	---	>87	>87	>87	>87	>87	>87	>87
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

### LO HARMONICS ORDER

Test conditions: RF IN: 3800 MHz; 4.00 dBm.  
 LO IN: 3830 MHz; +13.00 dBm  
 IF OUT: 30 MHz; -3.09 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 represent the Harmonics level of the RF input signal to the mixer.