

Frequency Mixer

MCA-ED12676/2

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=250MHz (dB)			RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)			RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+15dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+14	+17	+20			+14	+17	+20			+14	+17	+20
675.0	425.0	13.90	11.75	12.20	675.0	425.0	11.18	11.18	10.87	675.0	425.0	6.81	6.44	4.27
775.0	525.0	11.19	8.96	9.14	775.0	525.0	20.05	16.23	15.07	775.0	525.0	3.28	3.40	1.91
875.0	625.0	8.22	6.53	7.34	875.0	625.0	13.97	14.39	15.97	875.0	625.0	4.27	4.00	2.50
975.0	725.0	9.02	8.34	9.34	975.0	725.0	15.97	28.93	23.70	975.0	725.0	1.33	0.64	-0.70
1075.0	825.0	7.26	6.61	7.01	1075.0	825.0	17.76	18.90	23.69	1075.0	825.0	2.17	1.71	0.82
1175.0	925.0	6.41	6.09	6.19	1175.0	925.0	21.57	23.79	25.84	1175.0	925.0	1.39	0.84	0.33
1275.0	1025.0	6.77	6.63	6.85	1275.0	1025.0	19.96	23.94	25.80	1275.0	1025.0	3.15	1.50	0.38
1375.0	1125.0	6.36	6.23	6.45	1375.0	1125.0	21.94	23.97	21.85	1375.0	1125.0	0.89	0.60	0.46
1475.0	1225.0	7.11	7.03	7.16	1475.0	1225.0	27.85	29.30	30.77	1475.0	1225.0	0.71	0.34	0.19
1575.0	1325.0	6.91	6.62	6.85	1575.0	1325.0	24.58	25.46	30.73	1575.0	1325.0	0.91	0.53	0.14
1675.0	1425.0	7.07	6.77	6.96	1675.0	1425.0	28.88	26.91	26.85	1675.0	1425.0	0.97	0.50	0.13
1775.0	1525.0	7.36	7.05	7.24	1775.0	1525.0	28.30	31.74	29.68	1775.0	1525.0	1.07	0.54	0.16
1875.0	1625.0	7.45	7.11	7.33	1875.0	1625.0	25.69	27.98	30.59	1875.0	1625.0	1.22	0.62	0.22
1975.0	1725.0	7.59	7.23	7.47	1975.0	1725.0	21.22	23.61	29.53	1975.0	1725.0	1.54	0.97	0.35
2075.0	1825.0	8.06	7.70	7.90	2075.0	1825.0	18.86	23.81	27.84	2075.0	1825.0	1.68	1.17	0.49
2175.0	1925.0	7.77	7.31	7.58	2175.0	1925.0	21.66	24.25	27.13	2175.0	1925.0	1.26	0.94	0.41
2275.0	2025.0	7.82	7.63	7.99	2275.0	2025.0	23.30	26.29	30.02	2275.0	2025.0	1.25	0.82	0.21
2375.0	2125.0	7.79	7.56	7.99	2375.0	2125.0	21.13	23.95	26.47	2375.0	2125.0	1.26	0.90	0.27
2475.0	2225.0	7.66	7.36	7.89	2475.0	2225.0	20.97	24.21	21.82	2475.0	2225.0	1.05	0.73	0.09
2575.0	2325.0	7.64	7.33	7.84	2575.0	2325.0	21.82	25.64	24.73	2575.0	2325.0	1.00	0.75	0.13
2655.0	2405.0	7.71	7.43	7.89	2655.0	2405.0	21.66	25.66	29.12	2655.0	2405.0	1.97	1.39	0.22
2755.0	2505.0	7.88	7.70	8.10	2755.0	2505.0	21.76	26.24	25.40	2755.0	2505.0	0.82	0.65	0.21
2835.0	2585.0	7.94	7.84	8.22	2835.0	2585.0	21.79	26.97	26.51	2835.0	2585.0	0.73	0.54	0.15
2935.0	2685.0	7.89	7.68	8.00	2935.0	2685.0	21.24	25.07	25.58	2935.0	2685.0	0.64	0.54	0.15
3015.0	2765.0	7.89	7.68	7.95	3015.0	2765.0	22.00	25.70	25.35	3015.0	2765.0	0.61	0.42	0.12
3115.0	2865.0	7.69	7.66	7.95	3115.0	2865.0	23.00	27.15	25.28	3115.0	2865.0	0.61	0.26	0.08
3195.0	2945.0	7.49	7.46	7.82	3195.0	2945.0	21.63	26.81	24.91	3195.0	2945.0	0.72	0.30	0.06
3295.0	3045.0	7.47	7.50	7.85	3295.0	3045.0	23.55	29.36	26.56	3295.0	3045.0	0.60	0.23	0.02
3375.0	3125.0	7.46	7.47	7.84	3375.0	3125.0	23.90	29.62	28.66	3375.0	3125.0	0.61	0.24	0.01
3475.0	3225.0	7.56	7.57	7.92	3475.0	3225.0	23.11	27.88	30.75	3475.0	3225.0	0.61	0.25	0.03
3555.0	3305.0	7.80	7.76	8.04	3555.0	3305.0	23.06	26.97	30.44	3555.0	3305.0	0.46	0.18	0.03
3655.0	3405.0	8.31	8.33	8.63	3655.0	3405.0	24.90	27.22	28.77	3655.0	3405.0	0.42	0.17	0.05
3735.0	3485.0	9.11	9.22	9.63	3735.0	3485.0	26.01	30.21	29.01	3735.0	3485.0	0.36	0.14	-0.01
3835.0	3585.0	9.23	9.26	9.69	3835.0	3585.0	25.60	32.29	27.75	3835.0	3585.0	0.42	0.17	-0.05
3915.0	3665.0	9.46	9.38	9.80	3915.0	3665.0	25.42	32.61	28.77	3915.0	3665.0	0.39	0.20	-0.02
4015.0	3765.0	9.88	9.63	10.04	4015.0	3765.0	24.28	29.30	27.94	4015.0	3765.0	0.33	0.22	0.00
4095.0	3845.0	10.37	9.98	10.40	4095.0	3845.0	24.02	29.34	27.72	4095.0	3845.0	0.32	0.26	0.02
4195.0	3945.0	11.04	10.51	10.89	4195.0	3945.0	22.25	26.76	29.31	4195.0	3945.0	0.30	0.36	0.08
4275.0	4025.0	11.67	11.06	11.31	4275.0	4025.0	21.19	25.73	30.79	4275.0	4025.0	0.18	0.32	0.11
4375.0	4125.0	12.26	11.59	11.72	4375.0	4125.0	20.45	25.11	30.54	4375.0	4125.0	-0.03	0.16	0.06

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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)=3850MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=3764.89MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=3935.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
1700.0	2150.0	10.45	10.1	3775.0	26.33	1760.1	2175.0	10.73
1607.8	2242.2	10.38	25.5	3790.4	18.72	1719.9	2215.2	10.56
1515.6	2334.4	10.22	40.9	3805.8	15.20	1679.6	2255.5	10.59
1423.5	2426.5	10.21	56.3	3821.2	13.10	1639.4	2295.7	10.47
1331.3	2518.7	10.22	71.6	3836.5	11.87	1599.2	2335.9	10.44
1239.1	2610.9	10.23	87.0	3851.9	11.08	1559.0	2376.1	10.42
1146.9	2703.1	10.20	102.4	3867.3	10.48	1518.7	2416.4	10.30
1054.7	2795.3	10.15	117.8	3882.7	10.08	1478.5	2456.6	10.45
962.5	2887.5	9.91	133.2	3898.1	9.78	1438.3	2496.8	10.30
870.4	2979.6	9.74	148.6	3913.5	9.57	1398.0	2537.1	10.46
778.2	3071.8	9.66	163.9	3928.8	9.46	1357.8	2577.3	10.42
686.0	3164.0	9.59	179.3	3944.2	9.37	1317.6	2617.5	10.55
593.8	3256.2	9.29	194.7	3959.6	9.31	1277.3	2657.8	10.59
501.6	3348.4	9.08	210.1	3975.0	9.27	1237.1	2698.0	10.48
409.5	3440.5	9.46	225.5	3990.4	9.24	1196.9	2738.2	10.54
317.3	3532.7	9.44	240.9	4005.8	9.23	1156.7	2778.4	10.44
225.1	3624.9	9.18	256.3	4021.2	9.25	1116.4	2818.7	10.44
132.9	3717.1	9.74	271.6	4036.5	9.25	1076.2	2858.9	10.42
40.7	3809.3	15.46	287.0	4051.9	9.27	1036.0	2899.1	10.24
19.6	3869.6	21.18	302.4	4067.3	9.28	995.7	2939.4	10.25
48.5	3898.5	14.43	317.8	4082.7	9.27	955.5	2979.6	10.11
77.5	3927.5	11.96	333.2	4098.1	9.29	915.3	3019.8	10.10
106.4	3956.4	10.84	348.6	4113.5	9.30	875.0	3060.1	10.08
135.3	3985.3	10.24	363.9	4128.8	9.30	814.7	3120.4	10.01
164.2	4014.2	9.94	379.3	4144.2	9.32	774.5	3160.6	9.99
193.1	4043.1	9.82	394.7	4159.6	9.33	714.1	3221.0	9.81
222.0	4072.0	9.74	410.1	4175.0	9.33	673.9	3261.2	9.69
250.9	4100.9	9.69	425.5	4190.4	9.28	613.5	3321.6	9.56
270.2	4120.2	9.66	440.9	4205.8	9.28	573.3	3361.8	9.49
299.1	4149.1	9.67	456.3	4221.2	9.36	513.0	3422.1	9.73
318.4	4168.4	9.66	471.6	4236.5	9.39	472.7	3462.4	9.99
347.3	4197.3	9.65	487.0	4251.9	9.43	412.4	3522.7	9.87
366.5	4216.5	9.64	502.4	4267.3	9.47	372.2	3562.9	9.74
395.5	4245.5	9.68	517.8	4282.7	9.45	311.8	3623.3	9.46
414.7	4264.7	9.68	533.2	4298.1	9.49	271.6	3663.5	9.33
443.6	4293.6	9.68	548.6	4313.5	9.53	211.2	3723.9	9.41
462.9	4312.9	9.76	563.9	4328.8	9.59	171.0	3764.1	9.62
491.8	4341.8	9.87	579.3	4344.2	9.65	110.7	3824.4	10.64
511.1	4361.1	9.89	594.7	4359.6	9.69	70.4	3864.7	12.58
540.0	4390.0	9.88	610.1	4375.0	9.66	10.1	3925.0	26.97

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+14	+17	+20	+14	+17	+20
425.0	60.91	58.04	60.76	50.97	51.10	51.50
525.0	51.88	49.00	51.80	62.07	54.91	57.04
625.0	44.23	42.81	45.08	43.81	41.89	41.90
725.0	41.55	40.44	41.03	40.31	41.47	41.00
825.0	35.94	35.31	35.65	36.72	38.02	37.50
925.0	30.44	29.91	30.08	31.91	32.86	32.85
1025.0	23.35	22.71	21.24	29.52	30.83	31.54
1125.0	22.96	22.32	21.54	22.43	23.08	23.60
1225.0	25.92	25.24	25.12	24.10	24.71	25.32
1325.0	32.65	31.99	31.87	29.67	30.46	30.36
1425.0	46.75	47.20	45.01	29.37	30.44	30.19
1525.0	44.16	45.66	46.64	30.34	31.43	31.28
1625.0	43.55	44.67	46.89	30.01	30.96	31.13
1725.0	44.00	44.18	45.06	30.04	30.98	31.09
1825.0	44.30	44.00	45.64	30.70	31.70	31.88
1925.0	44.25	43.01	45.09	32.02	33.05	33.43
2025.0	35.53	34.42	35.22	33.22	33.53	34.63
2125.0	31.40	30.39	29.59	32.92	33.16	32.96
2225.0	33.47	32.45	31.61	33.39	33.61	33.39
2325.0	34.93	34.27	33.26	33.92	34.00	33.75
2405.0	36.11	35.81	34.61	34.39	33.89	34.07
2505.0	35.98	36.07	34.89	32.29	31.38	31.72
2585.0	35.13	35.44	34.62	30.86	30.34	30.61
2685.0	35.90	36.62	35.23	30.69	30.31	30.65
2765.0	36.92	37.62	36.36	31.05	30.28	31.32
2865.0	34.02	34.31	34.44	32.09	32.17	33.60
2945.0	34.76	35.97	36.08	33.38	34.72	36.46
3045.0	40.08	41.34	40.76	32.91	32.62	33.39
3125.0	48.91	51.75	46.80	32.19	31.56	32.30
3225.0	50.61	54.83	48.09	32.12	31.67	32.31
3305.0	41.98	42.60	41.46	32.26	31.98	32.74
3405.0	32.66	32.56	31.75	36.96	37.32	38.91
3485.0	36.34	36.44	35.08	41.99	41.86	44.50
3585.0	40.91	40.65	38.46	35.13	34.80	36.33
3665.0	41.94	42.67	39.84	34.05	33.93	35.44
3765.0	41.18	42.16	39.95	34.18	33.90	35.83
3845.0	39.74	40.30	39.09	34.48	33.93	35.97
3945.0	38.07	38.01	37.73	35.45	34.68	37.46
4025.0	37.55	37.19	37.90	37.07	36.13	39.48
4125.0	39.13	38.89	39.66	38.75	38.36	38.96

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
675.0	425.0	16.70	18.06	17.39
775.0	525.0	21.35	22.44	20.10
875.0	625.0	23.76	25.21	20.17
975.0	725.0	26.90	30.97	17.74
1075.0	825.0	26.75	26.06	17.79
1175.0	925.0	25.97	25.37	20.80
1275.0	1025.0	23.66	24.62	25.46
1375.0	1125.0	23.81	23.27	21.31
1475.0	1225.0	20.76	20.34	21.09
1575.0	1325.0	22.65	24.03	18.84
1675.0	1425.0	24.13	24.83	19.14
1775.0	1525.0	25.16	25.53	18.99
1875.0	1625.0	25.10	25.25	18.92
1975.0	1725.0	24.09	24.18	18.85
2075.0	1825.0	24.92	24.00	18.94
2175.0	1925.0	23.69	23.76	19.36
2275.0	2025.0	22.81	22.60	18.08
2375.0	2125.0	28.55	28.15	19.76
2475.0	2225.0	23.65	24.34	17.85
2575.0	2325.0	21.96	22.62	16.92
2655.0	2405.0	21.60	22.28	16.68
2755.0	2505.0	21.06	21.72	16.40
2835.0	2585.0	21.22	21.91	16.59
2935.0	2685.0	22.91	23.60	17.95
3015.0	2765.0	20.86	20.42	17.18
3115.0	2865.0	20.48	19.89	17.16
3195.0	2945.0	22.65	22.44	18.37
3295.0	3045.0	22.28	22.71	18.52
3375.0	3125.0	20.88	21.30	17.95
3475.0	3225.0	20.01	20.35	17.94
3555.0	3305.0	19.64	19.89	17.78
3655.0	3405.0	19.66	19.65	17.37
3735.0	3485.0	19.98	20.13	17.30
3835.0	3585.0	21.57	21.89	18.33
3915.0	3665.0	22.80	23.15	19.35
4015.0	3765.0	24.44	24.62	20.70
4095.0	3845.0	26.23	25.80	22.13
4195.0	3945.0	28.86	27.14	24.12
4275.0	4025.0	30.32	27.95	26.60
4375.0	4125.0	29.52	27.77	31.39

Frequency Mixer

MCA-ED12676/2

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=3925MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
675.0	425.0	3.14	2.86	2.86	425.0	4.08	4.07	4.07	10.0	49.64	48.26	46.96
775.0	525.0	2.52	2.09	2.09	525.0	3.98	3.97	3.96	90.6	4.36	4.04	4.05
875.0	625.0	2.18	1.79	1.85	625.0	3.92	3.91	3.90	171.1	1.94	1.90	1.92
975.0	725.0	1.86	1.47	1.51	725.0	3.86	3.86	3.85	251.7	1.29	1.38	1.40
1075.0	825.0	1.74	1.52	1.55	825.0	3.88	3.88	3.86	332.3	1.13	1.32	1.30
1175.0	925.0	1.75	1.62	1.62	925.0	3.98	3.97	3.92	412.8	1.34	1.46	1.43
1275.0	1025.0	1.84	1.80	1.74	1025.0	3.99	3.95	3.59	493.4	1.59	1.65	1.62
1375.0	1125.0	1.92	1.86	1.80	1125.0	3.89	3.74	3.24	574.0	1.83	1.84	1.80
1475.0	1225.0	1.98	1.86	1.81	1225.0	3.34	3.29	3.22	654.5	2.06	2.00	1.97
1575.0	1325.0	2.14	1.98	2.01	1325.0	3.56	3.55	3.53	735.1	2.18	2.08	2.07
1675.0	1425.0	2.14	1.98	1.97	1425.0	3.42	3.41	3.38	815.7	2.30	2.14	2.15
1775.0	1525.0	2.12	1.94	1.95	1525.0	3.35	3.35	3.31	876.1	2.33	2.13	2.15
1875.0	1625.0	2.11	1.90	1.95	1625.0	3.31	3.31	3.27	956.7	2.35	2.12	2.16
1975.0	1725.0	2.06	1.86	1.91	1725.0	3.29	3.29	3.25	1017.1	2.41	2.16	2.19
2075.0	1825.0	1.88	1.71	1.75	1825.0	3.27	3.27	3.24	1097.7	2.43	2.14	2.17
2175.0	1925.0	2.34	2.15	2.16	1925.0	3.26	3.24	3.21	1158.1	2.40	2.09	2.12
2275.0	2025.0	2.26	1.99	2.02	2025.0	3.28	3.29	3.27	1238.7	2.30	1.98	2.01
2375.0	2125.0	1.96	1.74	1.80	2125.0	3.32	3.34	3.30	1299.1	2.24	1.92	1.99
2475.0	2225.0	1.86	1.65	1.69	2225.0	3.52	3.54	3.49	1379.6	2.22	1.89	1.95
2575.0	2325.0	1.79	1.57	1.59	2325.0	3.75	3.76	3.70	1440.1	2.15	1.82	1.87
2655.0	2405.0	1.70	1.48	1.52	2405.0	3.97	3.97	3.92	1520.6	2.03	1.70	1.76
2755.0	2505.0	1.59	1.39	1.42	2505.0	4.30	4.31	4.23	1581.1	1.93	1.63	1.68
2835.0	2585.0	1.50	1.31	1.34	2585.0	4.66	4.68	4.56	1661.6	1.81	1.54	1.58
2935.0	2685.0	1.56	1.36	1.40	2685.0	5.33	5.38	5.22	1722.1	1.70	1.46	1.49
3015.0	2765.0	1.63	1.47	1.50	2765.0	5.74	5.74	5.51	1802.6	1.56	1.37	1.36
3115.0	2865.0	1.54	1.47	1.49	2865.0	6.15	6.05	5.83	1863.0	1.47	1.28	1.27
3195.0	2945.0	1.49	1.46	1.44	2945.0	6.49	6.42	5.99	1943.6	1.30	1.13	1.12
3295.0	3045.0	1.50	1.52	1.51	3045.0	7.47	7.44	6.91	2004.0	1.19	1.07	1.09
3375.0	3125.0	1.56	1.60	1.60	3125.0	7.53	7.31	6.66	2084.6	1.20	1.20	1.23
3475.0	3225.0	1.80	1.83	1.83	3225.0	6.66	6.39	5.87	2145.0	1.34	1.38	1.40
3555.0	3305.0	2.09	2.12	2.11	3305.0	5.39	5.13	4.70	2225.6	1.57	1.65	1.65
3655.0	3405.0	2.42	2.46	2.44	3405.0	3.79	3.59	3.33	2286.0	1.71	1.82	1.82
3735.0	3485.0	2.61	2.68	2.66	3485.0	3.65	3.52	3.32	2366.6	1.90	2.02	2.03
3835.0	3585.0	2.95	2.99	2.96	3585.0	3.55	3.45	3.27	2427.0	2.04	2.16	2.18
3915.0	3665.0	3.24	3.21	3.19	3665.0	3.39	3.33	3.19	2507.6	2.19	2.27	2.31
4015.0	3765.0	3.70	3.57	3.56	3765.0	3.31	3.25	3.13	2568.0	2.35	2.38	2.44
4095.0	3845.0	4.14	3.91	3.92	3845.0	3.37	3.34	3.25	2648.6	2.72	2.69	2.73
4195.0	3945.0	4.80	4.45	4.42	3945.0	3.49	3.46	3.38	2709.0	2.96	2.88	2.91
4275.0	4025.0	5.23	4.80	4.69	4025.0	3.68	3.67	3.63	2789.6	3.30	3.16	3.18
4375.0	4125.0	5.77	5.27	5.03	4125.0	3.96	3.96	3.90	2850.0	3.62	3.45	3.44

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	4	5	14	27	28	36	---	---	---	---
1	-	+7	+0	7	10	28	28	44	44	---	---	---
2	64	40	38	41	32	41	46	55	59	64	---	---
3	>90	51	49	47	45	45	56	58	60	63	>70	---
4	>90	>70	>70	65	66	60	55	65	>70	>70	>70	>70
5	>90	>70	>70	>70	>70	68	>70	>70	>70	>70	>70	>70
6	>90	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
7	---	---	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
8	---	---	---	>70	>70	>70	>70	>70	>70	>70	>70	>70
9	---	---	---	---	>70	>70	>70	>70	>70	>70	>70	>70
10	---	---	---	---	---	>70	>70	>70	>70	>70	>70	>70
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

Test conditions: RF IN: 3850 MHz; 0.00 dBm.
LO IN: 3880 MHz; +17.00 dBm
IF OUT: 30 MHz; -20.36 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	13	13	25	37	39	48	---	---	---	---
1	-	+7	+0	10	12	36	31	50	53	---	---	---
2	45	26	41	38	31	45	47	51	56	62	---	---
3	65	50	32	37	29	56	52	47	48	58	65	---
4	90	59	55	57	51	46	53	57	57	66	75	74
5	>90	65	56	62	62	50	49	43	53	66	64	77
6	>90	73	70	65	60	72	66	59	60	62	69	>80
7	---	---	77	70	71	74	67	60	58	73	67	72
8	---	---	---	>80	>80	72	72	>80	70	67	68	73
9	---	---	---	---	>80	77	>80	>80	74	77	74	66
10	---	---	---	---	---	>80	>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: 3850 MHz; 10.00 dBm.
LO IN: 3880 MHz; +17.00 dBm
IF OUT: 30 MHz; -10.29 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.