

Frequency Mixer

MCA-36FMH+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=430MHz (dB)			RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)			RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+13dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+10	+13	+16			+10	+13	+16			+10	+13	+16
2860.0	2430.0	12.67	10.82	11.00	2860.0	2430.0	14.74	17.07	11.60	2860.0	2430.0	1.50	1.35	-0.24
2890.0	2460.0	11.59	10.14	11.80	2890.0	2460.0	14.70	16.83	14.90	2890.0	2460.0	1.67	1.33	-1.63
2920.0	2490.0	11.58	10.12	9.81	2920.0	2490.0	14.31	16.80	17.43	2920.0	2490.0	1.53	1.26	0.28
2950.0	2520.0	11.35	9.92	8.99	2950.0	2520.0	14.47	17.23	20.18	2950.0	2520.0	1.34	1.10	0.88
2980.0	2550.0	10.57	9.39	8.67	2980.0	2550.0	15.35	17.88	20.51	2980.0	2550.0	1.25	1.01	0.76
3015.0	2585.0	10.40	9.27	8.61	3015.0	2585.0	15.33	17.47	20.23	3015.0	2585.0	1.25	0.98	0.73
3045.0	2615.0	10.29	9.19	8.60	3045.0	2615.0	15.69	18.31	20.93	3045.0	2615.0	1.13	0.90	0.71
3080.0	2650.0	9.69	8.81	8.34	3080.0	2650.0	16.75	19.27	22.11	3080.0	2650.0	1.01	0.82	0.63
3110.0	2680.0	9.63	8.80	8.34	3110.0	2680.0	17.18	19.68	22.80	3110.0	2680.0	0.94	0.75	0.62
3145.0	2715.0	9.50	8.75	8.35	3145.0	2715.0	18.06	20.78	24.34	3145.0	2715.0	0.75	0.65	0.56
3175.0	2745.0	9.09	8.54	8.24	3175.0	2745.0	19.00	22.71	26.13	3175.0	2745.0	0.68	0.58	0.43
3210.0	2780.0	9.02	8.54	8.31	3210.0	2780.0	19.87	24.16	26.92	3210.0	2780.0	0.59	0.47	0.32
3240.0	2810.0	8.84	8.48	8.32	3240.0	2810.0	21.27	25.61	27.68	3240.0	2810.0	0.55	0.39	0.22
3275.0	2845.0	8.50	8.28	8.23	3275.0	2845.0	22.84	27.87	29.51	3275.0	2845.0	0.49	0.28	0.15
3305.0	2875.0	8.47	8.31	8.28	3305.0	2875.0	23.86	29.28	29.88	3305.0	2875.0	0.43	0.21	0.12
3340.0	2910.0	8.43	8.31	8.30	3340.0	2910.0	25.41	29.89	30.71	3340.0	2910.0	0.30	0.16	0.09
3370.0	2940.0	8.40	8.34	8.36	3370.0	2940.0	26.05	32.38	32.32	3370.0	2940.0	0.25	0.12	0.07
3405.0	2975.0	8.58	8.55	8.60	3405.0	2975.0	27.78	33.32	33.02	3405.0	2975.0	0.18	0.07	0.05
3435.0	3005.0	8.58	8.56	8.61	3435.0	3005.0	27.72	33.54	34.06	3435.0	3005.0	0.17	0.06	0.04
3470.0	3040.0	8.55	8.55	8.61	3470.0	3040.0	27.46	36.21	33.17	3470.0	3040.0	0.23	0.07	0.04
3500.0	3070.0	8.67	8.68	8.75	3500.0	3070.0	27.39	34.92	33.22	3500.0	3070.0	0.26	0.07	0.04
3535.0	3105.0	8.61	8.60	8.66	3535.0	3105.0	24.49	31.00	35.22	3535.0	3105.0	0.45	0.13	0.04
3565.0	3135.0	8.57	8.54	8.60	3565.0	3135.0	23.21	28.13	35.77	3565.0	3135.0	0.57	0.18	0.06
3600.0	3170.0	8.74	8.68	8.72	3600.0	3170.0	23.00	28.50	33.28	3600.0	3170.0	0.57	0.19	0.07
3630.0	3200.0	8.81	8.71	8.72	3630.0	3200.0	21.80	26.57	34.65	3630.0	3200.0	0.66	0.26	0.09
3665.0	3235.0	8.88	8.72	8.71	3665.0	3235.0	20.88	25.06	33.01	3665.0	3235.0	0.70	0.32	0.12
3695.0	3265.0	9.10	8.92	8.89	3695.0	3265.0	21.13	25.09	31.84	3695.0	3265.0	0.64	0.30	0.12
3730.0	3300.0	9.26	9.02	8.93	3730.0	3300.0	20.41	23.40	28.35	3730.0	3300.0	0.68	0.38	0.15
3760.0	3330.0	9.33	9.07	8.96	3760.0	3330.0	20.39	22.98	27.15	3760.0	3330.0	0.63	0.38	0.15
3795.0	3365.0	9.62	9.35	9.22	3795.0	3365.0	20.75	23.27	26.76	3795.0	3365.0	0.51	0.29	0.12
3825.0	3395.0	9.76	9.43	9.26	3825.0	3395.0	20.47	22.58	25.33	3825.0	3395.0	0.52	0.31	0.12
3860.0	3430.0	9.86	9.51	9.33	3860.0	3430.0	20.83	22.81	25.16	3860.0	3430.0	0.44	0.22	0.06
3890.0	3460.0	10.07	9.77	9.61	3890.0	3460.0	21.90	23.70	26.03	3890.0	3460.0	0.36	0.15	0.02
3925.0	3495.0	10.26	9.90	9.74	3925.0	3495.0	25.08	25.40	26.76	3925.0	3495.0	0.48	0.25	0.07
3955.0	3525.0	10.46	10.11	10.00	3955.0	3525.0	24.82	24.43	26.80	3955.0	3525.0	0.47	0.28	0.13
3990.0	3560.0	10.84	10.47	10.34	3990.0	3560.0	21.48	24.00	29.05	3990.0	3560.0	0.46	0.34	0.15
4020.0	3590.0	10.96	10.48	10.29	4020.0	3590.0	20.37	23.09	28.56	4020.0	3590.0	0.52	0.43	0.22
4055.0	3625.0	11.10	10.56	10.32	4055.0	3625.0	19.82	23.06	29.29	4055.0	3625.0	0.50	0.44	0.23
4085.0	3655.0	11.24	10.70	10.45	4085.0	3655.0	19.83	23.69	30.57	4085.0	3655.0	0.46	0.39	0.20
4120.0	3690.0	11.47	10.79	10.44	4120.0	3690.0	18.90	22.11	28.17	4120.0	3690.0	0.44	0.42	0.25

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=3500MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=3489.89MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=3610.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+13			+13			+13
840.0	2660.0	10.59	110.1	3600.0	10.78	890.1	2720.0	10.48
793.9	2706.1	10.22	120.1	3610.0	10.42	870.1	2740.0	10.21
747.8	2752.2	9.67	130.1	3620.0	10.12	850.1	2760.0	10.04
701.7	2798.3	9.44	140.1	3630.0	9.82	830.1	2780.0	9.93
655.6	2844.4	9.18	150.1	3640.0	9.63	810.1	2800.0	9.81
609.4	2890.6	9.05	160.1	3650.0	9.49	790.1	2820.0	9.68
563.3	2936.7	8.91	170.1	3660.0	9.36	770.1	2840.0	9.54
517.2	2982.8	8.85	180.1	3670.0	9.26	750.1	2860.0	9.50
471.1	3028.9	8.77	190.1	3680.0	9.19	730.1	2880.0	9.39
425.0	3075.0	8.71	200.1	3690.0	9.17	710.1	2900.0	9.34
378.9	3121.1	8.56	210.1	3700.0	9.12	690.1	2920.0	9.29
332.8	3167.2	8.44	220.1	3710.0	9.09	670.1	2940.0	9.24
286.7	3213.3	8.43	230.1	3720.0	9.02	650.1	2960.0	9.22
240.6	3259.4	8.44	240.1	3730.0	8.99	630.1	2980.0	9.13
194.4	3305.6	8.72	260.1	3750.0	8.96	610.1	3000.0	9.14
148.3	3351.7	9.28	270.1	3760.0	8.97	590.1	3020.0	9.06
102.2	3397.8	10.71	290.1	3780.0	9.04	570.1	3040.0	9.07
56.1	3443.9	13.95	300.1	3790.0	9.08	550.1	3060.0	9.05
10.0	3490.0	28.57	320.1	3810.0	9.08	530.1	3080.0	8.99
27.0	3527.0	19.72	330.1	3820.0	9.10	510.1	3100.0	8.99
61.1	3561.1	13.66	350.1	3840.0	9.13	490.1	3120.0	8.92
95.1	3595.1	11.39	360.1	3850.0	9.17	470.1	3140.0	8.87
129.2	3629.2	10.15	380.1	3870.0	9.26	450.1	3160.0	8.80
163.2	3663.2	9.51	390.1	3880.0	9.32	430.1	3180.0	8.69
197.3	3697.3	9.25	410.1	3900.0	9.41	410.1	3200.0	8.73
231.4	3731.4	9.04	420.1	3910.0	9.38	390.1	3220.0	8.67
265.4	3765.4	9.02	440.1	3930.0	9.41	370.1	3240.0	8.68
299.5	3799.5	9.13	450.1	3940.0	9.49	350.1	3260.0	8.62
333.5	3833.5	9.16	470.1	3960.0	9.60	330.1	3280.0	8.65
367.6	3867.6	9.28	480.1	3970.0	9.67	310.1	3300.0	8.62
401.6	3901.6	9.43	500.1	3990.0	9.78	290.1	3320.0	8.67
435.7	3935.7	9.47	510.1	4000.0	9.78	270.1	3340.0	8.69
469.7	3969.7	9.68	530.1	4020.0	9.78	250.1	3360.0	8.74
486.8	3986.8	9.79	540.1	4030.0	9.81	230.1	3380.0	8.85
520.8	4020.8	9.80	560.1	4050.0	9.95	210.1	3400.0	8.96
537.8	4037.8	9.86	570.1	4060.0	9.99	190.1	3420.0	9.14
571.9	4071.9	10.08	590.1	4080.0	10.07	170.1	3440.0	9.27
588.9	4088.9	10.12	600.1	4090.0	10.10	150.1	3460.0	9.60
623.0	4123.0	10.17	620.1	4110.0	10.12	130.1	3480.0	10.01
640.0	4140.0	10.32	630.1	4120.0	10.17	110.1	3500.0	10.75

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Frequency Mixer

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+10	+13	+16	+10	+13	+16
2430.0	34.22	35.38	36.27	45.29	48.63	43.18
2460.0	34.88	36.04	36.85	47.63	47.59	41.51
2490.0	34.89	36.07	37.04	47.95	47.29	44.16
2520.0	35.33	36.40	37.15	45.59	43.16	40.72
2550.0	35.45	36.31	36.82	41.65	39.47	37.77
2585.0	35.17	35.93	36.40	38.75	37.07	35.88
2615.0	35.05	35.77	36.48	36.47	34.99	34.38
2650.0	34.92	35.69	36.40	34.13	33.20	32.90
2680.0	34.85	35.62	36.43	32.98	32.36	32.25
2715.0	34.94	36.05	37.20	31.78	31.57	31.86
2745.0	35.29	36.50	37.83	31.44	31.60	32.30
2780.0	35.58	37.07	38.70	31.66	32.45	33.64
2810.0	36.04	37.68	39.22	32.22	33.45	34.80
2845.0	36.47	38.15	39.87	33.10	34.79	36.52
2875.0	37.04	38.89	41.01	33.70	35.32	36.99
2910.0	39.45	41.92	44.89	34.01	35.29	36.28
2940.0	41.17	43.96	47.77	33.97	34.88	35.48
2975.0	44.04	47.71	53.43	34.02	34.61	34.83
3005.0	46.44	50.20	54.30	33.50	33.73	33.93
3040.0	48.25	51.95	54.20	33.23	33.32	33.41
3070.0	48.72	50.96	51.01	34.17	34.15	34.17
3105.0	46.72	47.46	47.18	35.86	35.76	35.71
3135.0	46.72	48.49	48.41	37.23	37.26	36.91
3170.0	47.84	50.83	55.40	37.37	37.25	37.14
3200.0	45.70	46.56	47.54	37.13	37.05	36.66
3235.0	43.57	43.38	43.27	36.99	36.80	36.31
3265.0	42.75	42.28	41.80	37.02	36.68	36.12
3300.0	42.67	42.40	41.71	37.43	37.00	36.21
3330.0	42.87	42.64	42.11	38.06	37.72	36.93
3365.0	43.19	43.34	42.89	38.99	38.54	37.49
3395.0	43.38	43.74	43.49	40.40	39.85	38.74
3430.0	43.68	44.23	44.13	42.98	42.53	41.44
3460.0	44.08	44.85	45.21	47.70	47.42	46.43
3495.0	42.82	43.40	43.91	47.22	44.54	42.09
3525.0	40.29	40.48	40.75	40.34	38.27	36.61
3560.0	39.17	39.50	39.97	36.57	35.37	34.33
3590.0	38.94	39.39	39.97	36.10	35.18	34.24
3625.0	38.79	39.19	39.67	35.83	34.96	33.99
3655.0	39.07	39.50	39.88	35.44	34.54	33.58
3690.0	39.39	39.67	39.92	35.81	34.78	33.79

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+10	+13	+16
2860.0	2430.0	32.09	27.81	27.52
2890.0	2460.0	31.38	28.11	32.85
2920.0	2490.0	32.82	29.74	29.19
2950.0	2520.0	33.86	31.07	30.56
2980.0	2550.0	35.03	32.76	32.94
3015.0	2585.0	37.48	34.66	34.05
3045.0	2615.0	37.58	34.19	32.48
3080.0	2650.0	33.09	30.34	28.48
3110.0	2680.0	30.95	28.51	26.80
3145.0	2715.0	29.25	27.25	25.89
3175.0	2745.0	28.03	26.47	25.41
3210.0	2780.0	27.58	26.31	25.48
3240.0	2810.0	26.97	26.05	25.34
3275.0	2845.0	25.91	25.22	24.69
3305.0	2875.0	25.14	24.64	24.19
3340.0	2910.0	24.08	23.74	23.57
3370.0	2940.0	24.33	24.12	23.89
3405.0	2975.0	24.33	24.39	24.45
3435.0	3005.0	23.78	23.91	24.14
3470.0	3040.0	23.17	23.24	23.34
3500.0	3070.0	22.63	22.63	22.68
3535.0	3105.0	22.26	22.20	22.18
3565.0	3135.0	22.06	21.98	21.97
3600.0	3170.0	21.97	21.93	21.94
3630.0	3200.0	22.04	22.07	22.06
3665.0	3235.0	22.25	22.26	22.25
3695.0	3265.0	22.46	22.55	22.60
3730.0	3300.0	22.75	22.88	23.01
3760.0	3330.0	23.06	23.24	23.45
3795.0	3365.0	23.32	23.56	23.80
3825.0	3395.0	23.43	23.72	24.02
3860.0	3430.0	23.59	23.85	24.19
3890.0	3460.0	23.84	24.12	24.46
3925.0	3495.0	24.00	24.40	24.76
3955.0	3525.0	24.37	24.60	24.91
3990.0	3560.0	24.84	24.93	25.06
4020.0	3590.0	25.40	25.31	25.34
4055.0	3625.0	26.05	25.76	25.64
4085.0	3655.0	26.64	26.14	25.84
4120.0	3690.0	27.58	26.78	26.10

Frequency Mixer

MCA-36FMH+

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=3170MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+10	+13	+16		+10	+13	+16		+10	+13	+16
2860.0	2430.0	2.88	2.53	2.17	2430.0	28.03	27.59	23.18	10.0	9.58	9.28	8.95
2890.0	2460.0	2.75	2.40	1.91	2460.0	28.03	26.33	23.18	70.0	4.27	3.98	3.79
2920.0	2490.0	2.71	2.36	1.98	2490.0	25.19	24.14	21.73	130.0	2.31	2.25	2.25
2950.0	2520.0	2.60	2.25	1.92	2520.0	23.18	21.73	19.76	190.0	1.60	1.63	1.70
2980.0	2550.0	2.50	2.14	1.82	2550.0	22.87	22.00	20.95	270.0	1.17	1.29	1.42
3015.0	2585.0	2.40	2.04	1.73	2585.0	20.70	19.32	18.11	330.0	1.11	1.24	1.37
3045.0	2615.0	2.31	1.96	1.69	2615.0	18.70	17.39	16.11	410.0	1.30	1.34	1.41
3080.0	2650.0	2.21	1.90	1.68	2650.0	17.22	16.56	15.81	470.0	1.47	1.47	1.51
3110.0	2680.0	2.14	1.86	1.66	2680.0	15.00	14.15	13.29	550.0	1.65	1.61	1.61
3145.0	2715.0	2.06	1.82	1.68	2715.0	12.80	11.93	11.17	610.0	1.77	1.70	1.68
3175.0	2745.0	2.00	1.82	1.72	2745.0	11.03	10.43	9.96	690.0	1.91	1.83	1.78
3210.0	2780.0	1.90	1.76	1.70	2780.0	8.81	8.31	7.83	750.0	2.00	1.90	1.85
3240.0	2810.0	1.81	1.73	1.71	2810.0	7.31	6.89	6.51	830.0	2.08	1.96	1.89
3275.0	2845.0	1.80	1.75	1.77	2845.0	5.72	5.41	5.14	890.0	2.10	1.97	1.89
3305.0	2875.0	1.75	1.72	1.74	2875.0	4.54	4.28	4.05	970.0	2.11	1.97	1.87
3340.0	2910.0	1.77	1.78	1.83	2910.0	3.49	3.31	3.17	1030.0	2.11	1.96	1.85
3370.0	2940.0	1.85	1.88	1.95	2940.0	2.82	2.70	2.61	1110.0	2.01	1.85	1.74
3405.0	2975.0	1.81	1.85	1.92	2975.0	2.39	2.34	2.31	1170.0	1.95	1.78	1.66
3435.0	3005.0	1.82	1.88	1.95	3005.0	2.31	2.32	2.35	1250.0	1.90	1.72	1.59
3470.0	3040.0	1.91	1.96	2.03	3040.0	2.47	2.54	2.62	1310.0	1.77	1.59	1.47
3500.0	3070.0	1.91	1.96	2.02	3070.0	2.86	2.99	3.12	1390.0	1.70	1.52	1.39
3535.0	3105.0	1.96	2.01	2.08	3105.0	3.40	3.56	3.70	1450.0	1.66	1.47	1.34
3565.0	3135.0	2.04	2.08	2.14	3135.0	3.95	4.12	4.28	1530.0	1.56	1.38	1.25
3600.0	3170.0	2.08	2.10	2.15	3170.0	4.79	5.02	5.23	1590.0	1.47	1.30	1.17
3630.0	3200.0	2.17	2.18	2.23	3200.0	5.33	5.52	5.66	1670.0	1.38	1.22	1.10
3665.0	3235.0	2.28	2.27	2.31	3235.0	6.03	6.26	6.37	1730.0	1.29	1.14	1.03
3695.0	3265.0	2.33	2.32	2.36	3265.0	6.89	7.14	7.34	1810.0	1.20	1.06	1.05
3730.0	3300.0	2.48	2.46	2.48	3300.0	7.31	7.50	7.50	1870.0	1.17	1.08	1.12
3760.0	3330.0	2.57	2.54	2.56	3330.0	7.80	7.97	7.97	1950.0	1.17	1.19	1.27
3795.0	3365.0	2.64	2.60	2.62	3365.0	8.72	8.90	9.08	2010.0	1.21	1.28	1.37
3825.0	3395.0	2.80	2.75	2.76	3395.0	8.81	8.86	8.72	2090.0	1.33	1.40	1.50
3860.0	3430.0	2.91	2.86	2.85	3430.0	8.99	8.99	8.90	2150.0	1.45	1.50	1.58
3890.0	3460.0	2.95	2.90	2.89	3460.0	9.33	9.33	9.28	2230.0	1.60	1.63	1.69
3925.0	3495.0	3.14	3.05	3.01	3495.0	8.90	8.68	8.35	2290.0	1.72	1.71	1.73
3955.0	3525.0	3.18	3.07	3.03	3525.0	8.90	8.81	8.64	2370.0	1.96	1.91	1.90
3990.0	3560.0	3.19	3.09	3.06	3560.0	10.25	10.37	10.43	2430.0	2.10	2.04	2.01
4020.0	3590.0	3.37	3.24	3.19	3590.0	10.82	10.69	10.31	2510.0	2.37	2.28	2.22
4055.0	3625.0	3.52	3.35	3.29	3625.0	11.46	11.38	11.09	2570.0	2.65	2.54	2.47
4085.0	3655.0	3.56	3.40	3.33	3655.0	12.35	12.35	12.26	2650.0	2.84	2.75	2.67
4120.0	3690.0	3.80	3.60	3.48	3690.0	12.26	11.93	11.31	2710.0	2.92	2.84	2.78

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	15	24	19	23	57	34	36	---	---	---
1	-	13	+0	33	22	28	38	52	48	56	---	---
2	69	55	66	60	50	60	62	65	74	63	72	---
3	>90	77	62	71	56	67	61	71	66	>80	>80	>80
4	>90	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
5	>90	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
6	>90	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
7	---	---	>80	>80	>80	>80	>80	>80	>80	>80	>80	>80
8	---	---	---	>80	>80	>80	>80	>80	>80	>80	>80	>80
9	---	---	---	---	>80	>80	>80	>80	>80	>80	>80	>80
10	---	---	---	---	---	>80	>80	>80	>80	>80	>80	>80
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

Test conditions: RF IN: 3550 MHz; -2.00 dBm.
 LO IN: 3120 MHz; +13.00 dBm
 IF OUT: 430 MHz; -10.23 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	24	32	29	34	60	51	48	---	---	---
1	-	13	+0	34	23	29	40	55	51	55	---	---
2	49	45	56	53	40	50	53	55	68	55	67	---
3	73	55	42	55	36	49	42	55	48	74	80	83
4	>90	80	83	68	66	63	68	58	67	73	72	71
5	>90	>90	>90	84	72	73	60	68	64	74	69	72
6	>90	84	>90	82	>90	>90	>90	77	82	79	81	80
7	---	---	>90	>90	>90	>90	85	>90	76	80	77	>90
8	---	---	---	>90	>90	>90	>90	>90	>90	89	85	87
9	---	---	---	---	>90	>90	>90	>90	>90	>90	82	88
10	---	---	---	---	---	>90	>90	>90	>90	>90	>90	>90
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 3550 MHz; 8.00 dBm.
 LO IN: 3120 MHz; +13.00 dBm
 IF OUT: 430 MHz; -0.36 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.