

Frequency Mixer

MCA1T-42+

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
650.0	680.0	16.82	11.15	7.80	650.0	680.0	-5.71	0.05	5.31	650.0	680.0	-2.68	0.25	1.05
750.0	780.0	10.33	7.58	6.54	750.0	780.0	-0.71	3.55	14.79	750.0	780.0	2.16	2.24	1.64
850.0	880.0	7.99	6.57	5.99	850.0	880.0	4.48	12.84	12.39	850.0	880.0	2.97	2.63	2.13
950.0	980.0	7.01	6.09	5.60	950.0	980.0	8.08	9.88	10.35	950.0	980.0	2.82	2.53	2.25
1050.0	1080.0	6.76	6.04	5.59	1050.0	1080.0	6.44	8.50	9.80	1050.0	1080.0	2.38	2.21	1.97
1150.0	1180.0	6.42	6.10	5.81	1150.0	1180.0	6.26	6.50	7.18	1150.0	1180.0	1.96	1.70	1.46
1250.0	1280.0	6.01	5.79	5.65	1250.0	1280.0	8.73	10.13	12.10	1250.0	1280.0	1.51	1.28	1.11
1350.0	1380.0	5.90	5.70	5.59	1350.0	1380.0	14.37	9.86	9.88	1350.0	1380.0	1.13	0.88	0.73
1450.0	1480.0	5.91	5.68	5.57	1450.0	1480.0	12.31	13.15	14.76	1450.0	1480.0	1.03	0.80	0.62
1550.0	1580.0	6.21	5.87	5.67	1550.0	1580.0	20.11	14.66	13.86	1550.0	1580.0	0.89	0.75	0.63
1650.0	1680.0	6.16	5.84	5.67	1650.0	1680.0	12.37	12.14	13.58	1650.0	1680.0	0.90	0.68	0.52
1750.0	1780.0	6.10	5.85	5.70	1750.0	1780.0	11.43	11.51	13.08	1750.0	1780.0	0.87	0.64	0.47
1850.0	1880.0	6.06	5.87	5.76	1850.0	1880.0	12.86	15.32	17.51	1850.0	1880.0	0.78	0.48	0.35
1950.0	1980.0	6.09	5.87	5.74	1950.0	1980.0	12.43	13.51	15.88	1950.0	1980.0	0.92	0.64	0.48
2050.0	2080.0	6.47	6.12	5.90	2050.0	2080.0	12.05	13.15	14.29	2050.0	2080.0	1.00	0.74	0.57
2150.0	2180.0	6.58	6.19	5.93	2150.0	2180.0	11.32	12.00	12.74	2150.0	2180.0	1.19	0.92	0.74
2250.0	2280.0	6.83	6.27	5.96	2250.0	2280.0	9.07	10.29	11.83	2250.0	2280.0	1.17	0.92	0.77
2350.0	2380.0	6.82	6.34	6.02	2350.0	2380.0	8.42	8.47	8.94	2350.0	2380.0	1.29	0.99	0.78
2450.0	2480.0	6.60	6.11	5.87	2450.0	2480.0	8.65	10.63	12.68	2450.0	2480.0	1.14	0.83	0.67
2550.0	2580.0	7.25	6.58	6.14	2550.0	2580.0	10.43	8.80	9.56	2550.0	2580.0	0.96	0.82	0.68
2650.0	2680.0	7.17	6.62	6.34	2650.0	2680.0	9.48	8.91	9.87	2650.0	2680.0	1.19	0.90	0.73
2750.0	2780.0	7.17	6.53	6.17	2750.0	2780.0	7.55	8.84	9.51	2750.0	2780.0	1.10	0.90	0.84
2830.0	2860.0	6.87	6.30	5.98	2830.0	2860.0	6.08	6.99	7.49	2830.0	2860.0	1.31	1.01	0.89
2930.0	2960.0	6.73	5.99	5.65	2930.0	2960.0	4.89	8.80	11.67	2930.0	2960.0	1.35	1.06	0.82
3010.0	3040.0	6.28	5.53	5.34	3010.0	3040.0	6.87	12.59	14.55	3010.0	3040.0	1.59	0.94	0.65
3110.0	3140.0	6.04	5.43	5.28	3110.0	3140.0	6.49	11.12	13.87	3110.0	3140.0	1.32	0.65	0.46
3190.0	3220.0	5.81	5.23	5.10	3190.0	3220.0	6.50	10.65	12.65	3190.0	3220.0	1.24	0.57	0.38
3290.0	3320.0	5.73	5.18	5.09	3290.0	3320.0	7.40	10.99	15.73	3290.0	3320.0	1.22	0.53	0.31
3370.0	3400.0	5.72	5.26	5.22	3370.0	3400.0	12.11	12.09	17.55	3370.0	3400.0	1.20	0.56	0.25
3470.0	3500.0	6.07	5.52	5.38	3470.0	3500.0	8.70	15.87	15.55	3470.0	3500.0	1.43	1.01	0.64
3550.0	3580.0	6.17	5.59	5.37	3550.0	3580.0	12.18	14.28	13.29	3550.0	3580.0	1.19	0.88	0.63
3650.0	3680.0	6.26	5.66	5.31	3650.0	3680.0	13.91	14.38	11.25	3650.0	3680.0	1.24	0.96	0.74
3730.0	3760.0	6.45	5.86	5.55	3730.0	3760.0	14.37	14.40	13.87	3730.0	3760.0	1.09	0.90	0.75
3830.0	3860.0	6.55	5.95	5.64	3830.0	3860.0	10.30	11.77	11.71	3830.0	3860.0	1.14	0.95	0.83
3910.0	3940.0	6.78	6.16	5.85	3910.0	3940.0	8.66	10.74	11.46	3910.0	3940.0	1.04	0.84	0.74
4010.0	4040.0	7.23	6.47	6.06	4010.0	4040.0	8.94	11.37	12.75	4010.0	4040.0	1.18	1.01	0.89
4090.0	4120.0	7.83	6.90	6.43	4090.0	4120.0	7.95	10.02	12.05	4090.0	4120.0	1.10	0.86	0.77
4190.0	4220.0	8.70	7.31	6.80	4190.0	4220.0	6.61	8.57	10.56	4190.0	4220.0	0.87	0.71	0.68
4270.0	4300.0	9.88	7.46	6.84	4270.0	4300.0	5.37	8.32	11.62	4270.0	4300.0	0.43	0.76	0.65
4370.0	4400.0	11.91	7.98	6.98	4370.0	4400.0	2.47	8.89	12.83	4370.0	4400.0	-0.85	0.70	0.59

Frequency Mixer

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2600MHz (dB)
		@LO (dBm)
+7		
1770.0	830.0	11.05
1670.0	930.0	9.78
1570.0	1030.0	9.27
1470.0	1130.0	8.43
1390.0	1210.0	7.44
1290.0	1310.0	6.08
1210.0	1390.0	5.85
1110.0	1490.0	6.60
1030.0	1570.0	7.27
930.0	1670.0	7.94
850.0	1750.0	7.96
750.0	1850.0	7.09
670.0	1930.0	6.86
570.0	2030.0	6.91
490.0	2110.0	6.60
390.0	2210.0	6.11
310.0	2290.0	5.70
210.0	2390.0	6.00
130.0	2470.0	6.35
30.0	2570.0	6.52
50.0	2650.0	6.65
150.0	2750.0	6.73
230.0	2830.0	6.78
330.0	2930.0	6.70
410.0	3010.0	6.20
510.0	3110.0	6.01
590.0	3190.0	6.01
690.0	3290.0	6.24
770.0	3370.0	6.26
870.0	3470.0	6.26
950.0	3550.0	6.19
1050.0	3650.0	6.19
1130.0	3730.0	6.25
1230.0	3830.0	6.44
1310.0	3910.0	6.56
1410.0	4010.0	6.87
1490.0	4090.0	7.38
1590.0	4190.0	8.38
1670.0	4270.0	9.38
1770.0	4370.0	11.38

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=989.9MHz (dB)
		@LO (dBm)
+7		
10.1	1000.0	6.60
50.1	1040.0	5.97
90.1	1080.0	5.84
130.1	1120.0	5.97
170.1	1160.0	5.89
210.1	1200.0	5.84
250.1	1240.0	5.74
290.1	1280.0	5.62
330.1	1320.0	5.56
370.1	1360.0	5.54
410.1	1400.0	5.52
470.1	1460.0	5.39
510.1	1500.0	5.37
570.1	1560.0	5.73
610.1	1600.0	5.95
670.1	1660.0	5.75
710.1	1700.0	5.55
770.1	1760.0	5.60
810.1	1800.0	5.47
870.1	1860.0	5.48
910.1	1900.0	5.49
970.1	1960.0	5.62
1010.1	2000.0	5.75
1070.1	2060.0	5.89
1110.1	2100.0	5.99
1170.1	2160.0	6.10
1210.1	2200.0	6.45
1270.1	2260.0	6.71
1310.1	2300.0	6.77
1370.1	2360.0	6.80
1410.1	2400.0	6.82
1470.1	2460.0	6.84
1510.1	2500.0	6.88
1570.1	2560.0	7.12
1610.1	2600.0	7.24
1670.1	2660.0	7.65
1710.1	2700.0	7.96
1770.1	2760.0	8.66
1810.1	2800.0	9.29
1870.1	2860.0	10.88

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=4210.1MHz (dB)
		@LO (dBm)
+7		
1780.1	2430.0	10.72
1740.3	2469.8	9.75
1700.5	2509.6	9.23
1660.8	2549.3	8.98
1621.0	2589.1	8.78
1581.2	2628.9	8.55
1541.4	2668.7	8.25
1501.7	2708.4	8.18
1461.9	2748.2	8.13
1422.1	2788.0	8.16
1382.3	2827.8	8.19
1342.6	2867.5	8.32
1302.8	2907.3	8.20
1263.0	2947.1	8.02
1223.2	2986.9	7.73
1183.5	3026.6	7.89
1143.7	3066.4	7.97
1103.9	3106.2	7.85
1064.1	3146.0	7.88
1004.5	3205.6	7.81
964.7	3245.4	7.87
905.0	3305.1	7.67
865.3	3344.8	7.58
805.6	3404.5	7.40
765.8	3444.3	7.49
706.2	3503.9	7.46
666.4	3543.7	7.37
606.7	3603.4	7.27
567.0	3643.1	7.17
507.3	3702.8	7.07
467.5	3742.6	6.96
407.9	3802.2	7.16
368.1	3842.0	7.21
308.4	3901.7	7.09
268.6	3941.5	7.09
209.0	4001.1	7.10
169.2	4040.9	7.17
109.5	4100.6	7.20
69.8	4140.3	7.27
10.1	4200.0	7.59

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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
680.0	52.82	52.53	45.80	22.83	22.92	23.17
780.0	47.33	40.55	38.62	20.34	21.10	22.94
880.0	35.66	35.38	36.03	18.89	20.90	23.14
980.0	33.23	34.14	35.08	18.77	20.91	22.96
1080.0	34.83	35.34	36.09	19.87	22.46	24.72
1180.0	41.49	41.29	40.93	21.15	23.67	25.68
1280.0	47.88	45.29	43.30	22.71	24.49	25.16
1380.0	44.01	40.67	38.61	23.05	23.50	23.12
1480.0	41.42	38.85	36.59	22.61	22.22	21.36
1580.0	39.47	38.07	36.41	22.88	22.24	21.22
1680.0	37.14	36.44	36.14	22.69	21.23	20.29
1780.0	39.16	38.41	37.76	22.18	21.19	20.47
1880.0	40.58	39.84	39.22	21.98	21.44	21.04
1980.0	39.94	39.81	39.71	21.17	21.74	22.06
2080.0	38.93	38.40	38.09	20.00	21.58	23.09
2180.0	38.70	37.55	36.75	18.70	20.32	21.70
2280.0	40.17	37.50	36.02	18.51	19.05	19.23
2380.0	42.31	39.33	36.90	19.07	18.73	18.25
2480.0	43.61	41.07	38.71	20.21	19.00	18.07
2580.0	44.29	41.27	39.14	21.22	19.72	18.45
2680.0	44.05	41.01	38.94	22.73	20.67	19.27
2780.0	47.51	44.12	40.86	23.66	21.68	20.72
2860.0	48.94	48.19	43.35	24.68	22.55	21.38
2960.0	48.79	55.97	47.04	26.00	23.64	22.67
3040.0	44.44	45.56	42.69	27.46	25.65	24.79
3140.0	41.62	39.83	37.65	28.22	26.76	26.44
3220.0	39.86	38.09	35.87	27.96	27.11	27.31
3320.0	37.25	35.82	33.56	26.96	26.70	27.31
3400.0	35.79	33.86	32.05	25.91	26.19	27.26
3500.0	35.21	33.18	31.53	24.66	25.21	26.20
3580.0	33.55	32.27	30.78	24.14	24.54	25.29
3680.0	30.62	30.23	29.52	21.44	22.77	24.29
3760.0	29.58	29.50	28.92	20.52	22.05	23.67
3860.0	28.61	28.52	28.39	21.46	23.11	24.73
3940.0	28.61	28.38	28.14	22.05	23.70	25.14
4040.0	29.91	29.72	29.30	19.29	20.71	22.39
4120.0	30.04	30.22	29.95	17.19	18.51	20.26
4220.0	29.93	30.89	30.89	16.16	17.20	18.71
4300.0	30.02	31.26	32.02	15.67	16.31	17.57
4400.0	29.64	30.93	32.56	15.07	15.90	16.87

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+4	+7	+10
650.0	680.0	23.52	21.36	17.26
750.0	780.0	20.03	15.44	13.27
850.0	880.0	13.46	12.01	11.50
950.0	980.0	12.42	11.71	11.34
1050.0	1080.0	15.06	14.15	13.51
1150.0	1180.0	20.14	19.21	18.46
1250.0	1280.0	24.98	23.93	22.86
1350.0	1380.0	26.13	24.66	23.43
1450.0	1480.0	24.61	23.24	21.82
1550.0	1580.0	23.25	21.65	20.21
1650.0	1680.0	21.44	20.27	19.49
1750.0	1780.0	20.86	19.95	19.25
1850.0	1880.0	19.99	19.43	19.03
1950.0	1980.0	21.01	20.59	20.28
2050.0	2080.0	22.29	21.89	21.61
2150.0	2180.0	24.96	24.68	24.48
2250.0	2280.0	33.28	32.93	32.87
2350.0	2380.0	27.13	26.48	26.05
2450.0	2480.0	21.70	21.20	20.83
2550.0	2580.0	19.29	18.60	18.12
2650.0	2680.0	17.52	16.58	15.97
2750.0	2780.0	17.28	16.58	16.01
2830.0	2860.0	17.45	16.71	16.16
2930.0	2960.0	17.88	16.84	16.15
3010.0	3040.0	17.92	16.91	16.48
3110.0	3140.0	18.64	17.92	17.72
3190.0	3220.0	19.14	18.36	18.00
3290.0	3320.0	20.12	18.85	18.29
3370.0	3400.0	20.95	19.48	18.81
3470.0	3500.0	26.47	25.41	25.39
3550.0	3580.0	24.04	23.03	22.67
3650.0	3680.0	24.57	23.28	22.30
3730.0	3760.0	32.65	30.01	28.29
3830.0	3860.0	28.20	26.34	25.13
3910.0	3940.0	30.22	27.43	26.41
4010.0	4040.0	29.47	32.79	35.03
4090.0	4120.0	25.69	27.82	29.24
4190.0	4220.0	23.66	26.21	27.98
4270.0	4300.0	22.23	25.58	28.47
4370.0	4400.0	20.68	23.29	26.06

Frequency Mixer

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Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=4200MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+4	+7	+10		+4	+7	+10		+4	+7	+10
650.0	680.0	7.17	4.37	3.21	680.0	32.79	29.96	22.87	10.0	1.68	1.24	1.03
750.0	780.0	3.07	2.40	2.20	780.0	23.18	15.96	12.01	50.0	1.72	1.27	1.09
850.0	880.0	2.16	1.79	1.63	880.0	10.19	7.90	8.08	90.0	1.71	1.28	1.14
950.0	980.0	2.25	1.96	1.80	980.0	4.92	5.23	6.19	130.0	1.77	1.34	1.20
1050.0	1080.0	2.82	2.56	2.38	1080.0	3.17	3.84	4.83	170.0	1.82	1.40	1.27
1150.0	1180.0	3.08	2.99	2.89	1180.0	2.40	3.08	3.95	210.0	1.88	1.45	1.31
1250.0	1280.0	2.93	2.84	2.80	1280.0	1.90	2.54	3.32	250.0	1.97	1.54	1.40
1350.0	1380.0	2.88	2.72	2.64	1380.0	1.70	2.30	3.03	290.0	2.02	1.58	1.43
1450.0	1480.0	2.92	2.70	2.52	1480.0	1.71	2.32	3.04	330.0	2.11	1.66	1.50
1550.0	1580.0	3.01	2.76	2.52	1580.0	1.88	2.51	3.26	370.0	2.19	1.72	1.56
1650.0	1680.0	2.88	2.62	2.43	1680.0	2.03	2.70	3.49	410.0	2.27	1.77	1.59
1750.0	1780.0	2.67	2.43	2.26	1780.0	2.10	2.83	3.68	450.0	2.37	1.86	1.67
1850.0	1880.0	2.44	2.28	2.18	1880.0	2.08	2.86	3.79	490.0	2.44	1.90	1.68
1950.0	1980.0	2.61	2.43	2.31	1980.0	2.25	3.01	3.94	530.0	2.57	2.00	1.76
2050.0	2080.0	2.97	2.75	2.60	2080.0	2.52	3.24	4.13	570.0	2.62	2.03	1.77
2150.0	2180.0	3.19	2.95	2.78	2180.0	2.81	3.42	4.26	610.0	2.72	2.08	1.80
2250.0	2280.0	3.24	2.96	2.78	2280.0	3.18	3.67	4.40	650.0	2.79	2.12	1.83
2350.0	2380.0	3.13	2.82	2.57	2380.0	3.48	3.87	4.52	690.0	2.84	2.11	1.80
2450.0	2480.0	2.77	2.51	2.36	2480.0	3.85	4.07	4.61	730.0	2.96	2.20	1.87
2550.0	2580.0	3.16	2.79	2.52	2580.0	4.09	4.23	4.68	770.0	2.95	2.15	1.80
2650.0	2680.0	3.25	2.82	2.56	2680.0	4.36	4.18	4.51	810.0	3.10	2.25	1.87
2750.0	2780.0	3.36	3.01	2.73	2780.0	4.63	4.36	4.68	850.0	3.07	2.20	1.81
2830.0	2860.0	3.20	2.89	2.65	2860.0	4.66	4.09	4.29	890.0	3.16	2.25	1.85
2930.0	2960.0	2.90	2.37	2.07	2960.0	4.44	3.46	3.56	930.0	3.15	2.21	1.84
3010.0	3040.0	2.45	2.03	1.87	3040.0	4.66	3.58	3.55	970.0	3.14	2.19	1.82
3110.0	3140.0	2.14	1.81	1.68	3140.0	5.52	3.81	3.43	1010.0	3.14	2.20	1.84
3190.0	3220.0	2.02	1.68	1.55	3220.0	5.41	3.66	3.21	1050.0	3.09	2.15	1.80
3290.0	3320.0	1.84	1.46	1.35	3320.0	4.96	3.22	2.70	1090.0	3.04	2.13	1.81
3370.0	3400.0	1.66	1.27	1.15	3400.0	4.24	2.84	2.35	1130.0	2.95	2.07	1.78
3470.0	3500.0	1.82	1.48	1.32	3500.0	3.38	2.36	1.97	1170.0	2.86	2.03	1.78
3550.0	3580.0	1.97	1.65	1.46	3580.0	2.72	1.98	1.75	1210.0	2.77	2.00	1.79
3650.0	3680.0	2.13	1.85	1.63	3680.0	2.21	1.74	1.71	1270.0	2.73	2.09	1.97
3730.0	3760.0	2.33	2.07	1.87	3760.0	2.04	1.76	1.88	1310.0	2.71	2.17	2.10
3830.0	3860.0	2.52	2.28	2.12	3860.0	2.24	2.06	2.24	1370.0	2.66	2.28	2.27
3910.0	3940.0	2.66	2.44	2.30	3940.0	2.70	2.47	2.64	1410.0	2.62	2.36	2.39
4010.0	4040.0	2.97	2.71	2.53	4040.0	3.73	3.19	3.20	1470.0	2.66	2.64	2.77
4090.0	4120.0	3.33	3.03	2.84	4120.0	4.93	3.90	3.70	1510.0	2.67	2.80	2.98
4190.0	4220.0	3.80	3.35	3.16	4220.0	7.05	4.93	4.16	1570.0	2.76	3.12	3.40
4270.0	4300.0	4.36	3.52	3.24	4300.0	8.99	6.11	4.51	1610.0	2.88	3.40	3.73
4370.0	4400.0	5.19	3.73	3.34	4400.0	11.09	8.60	5.79	1670.0	3.22	3.91	4.32

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+8	19	2	25	21	38	41	50	65	---
1	-	11	+0	23	21	36	36	48	44	58	51	>69
2	89	43	49	45	57	48	45	61	52	58	65	>69
3	>90	61	53	68	57	61	62	63	>69	>69	69	>69
4	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
5	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
6	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
7	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
8	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
9	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
10	---	---	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

Test conditions: RF IN: 2600 MHz; -14.00 dBm.
 LO IN: 2630 MHz; +7.00 dBm
 IF OUT: 30 MHz; -20.72 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	2	32	13	39	38	46	52	60	71	---
1	-	10	+0	25	21	52	41	60	54	65	73	>79
2	70	36	40	42	46	46	39	54	48	67	65	67
3	>90	40	31	50	37	42	49	52	55	65	65	70
4	>90	73	61	57	63	51	59	59	58	75	62	69
5	>90	69	>79	63	52	79	52	65	60	>79	>79	77
6	>90	>79	>79	>79	>79	72	77	66	65	74	66	>79
7	>90	>79	>79	>79	>79	>79	68	>79	65	77	76	>79
8	>90	>79	>79	>79	>79	>79	>79	79	>79	73	78	>79
9	>90	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
10	---	---	>79	>79	>79	>79	>79	>79	>79	>79	>79	>79
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 2600 MHz; -4.00 dBm.
 LO IN: 2630 MHz; +7.00 dBm
 IF OUT: 30 MHz; -10.75 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.