

Frequency Mixer

MCA-ED12805/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=400MHz (dB)		
		@LO (dBm)		
		+14	+17	+20
510.1	110.1	15.86	13.83	11.91
610.1	210.1	10.81	9.03	7.84
710.1	310.1	8.27	6.83	5.90
810.1	410.1	6.01	5.51	5.40
910.1	510.1	5.47	5.33	5.31
1010.1	610.1	5.15	5.03	4.97
1110.1	710.1	8.51	8.16	8.00
1210.1	810.1	6.93	6.75	6.69
1310.1	910.1	7.19	6.83	6.59
1410.1	1010.1	7.37	6.90	6.70
1510.1	1110.1	7.39	6.81	6.51
1610.1	1210.1	7.75	7.24	6.98
1710.1	1310.1	8.26	7.76	7.44
1810.1	1410.1	7.67	7.14	6.79
1910.1	1510.1	7.68	7.19	6.91
2010.1	1610.1	8.13	7.62	7.33
2110.1	1710.1	8.18	7.53	7.13
2210.1	1810.1	8.12	7.64	7.32
2310.1	1910.1	7.65	7.27	7.02
2410.1	2010.1	7.74	7.60	7.57
2510.1	2110.1	7.59	7.41	7.37
2610.1	2210.1	7.37	7.21	7.22
2710.1	2310.1	7.25	7.13	7.19
2810.1	2410.1	7.08	6.90	6.90
2910.1	2510.1	7.34	7.41	7.65
3010.1	2610.1	7.45	7.48	7.60
3090.1	2690.1	7.36	7.36	7.47
3190.1	2790.1	7.31	7.31	7.41
3270.1	2870.1	7.31	7.37	7.52
3370.1	2970.1	7.24	7.36	7.52
3450.1	3050.1	7.36	7.51	7.71
3550.1	3150.1	7.28	7.35	7.50
3630.1	3230.1	7.55	7.55	7.66
3730.1	3330.1	7.88	7.73	7.71
3810.1	3410.1	8.45	8.17	8.00
3910.1	3510.1	9.18	8.89	8.81
3990.1	3590.1	9.65	9.17	8.97
4090.1	3690.1	10.36	9.62	9.23
4170.1	3770.1	11.02	10.29	9.91
4270.1	3870.1	11.43	10.59	10.23

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+14	+17	+20
510.1	110.1	13.25	13.77	14.53
610.1	210.1	12.73	13.30	14.56
710.1	310.1	15.02	15.86	16.95
810.1	410.1	17.76	19.43	22.02
910.1	510.1	21.48	23.26	24.02
1010.1	610.1	24.93	28.79	30.46
1110.1	710.1	20.92	21.76	26.96
1210.1	810.1	21.90	24.30	27.27
1310.1	910.1	16.95	19.48	23.49
1410.1	1010.1	20.24	21.77	26.44
1510.1	1110.1	21.97	23.61	24.66
1610.1	1210.1	20.78	24.30	28.58
1710.1	1310.1	22.81	24.27	26.35
1810.1	1410.1	24.86	24.75	25.30
1910.1	1510.1	22.30	24.53	26.94
2010.1	1610.1	20.53	23.66	27.91
2110.1	1710.1	21.12	24.54	27.09
2210.1	1810.1	22.63	28.34	28.76
2310.1	1910.1	25.52	25.73	25.65
2410.1	2010.1	30.55	28.44	29.00
2510.1	2110.1	30.99	33.31	34.83
2610.1	2210.1	26.29	32.94	36.79
2710.1	2310.1	23.46	27.98	32.30
2810.1	2410.1	22.81	26.40	29.69
2910.1	2510.1	24.21	29.37	33.55
3010.1	2610.1	24.81	30.30	33.44
3090.1	2690.1	25.32	29.89	33.20
3190.1	2790.1	25.61	28.59	31.38
3270.1	2870.1	26.96	30.54	32.41
3370.1	2970.1	26.05	34.92	34.61
3450.1	3050.1	28.54	32.49	38.61
3550.1	3150.1	25.04	28.77	34.91
3630.1	3230.1	23.43	27.48	35.71
3730.1	3330.1	23.09	26.55	31.64
3810.1	3410.1	23.79	26.30	28.65
3910.1	3510.1	28.57	30.95	33.78
3990.1	3590.1	24.73	28.11	31.37
4090.1	3690.1	22.83	25.90	29.17
4170.1	3770.1	22.38	26.13	29.62
4270.1	3870.1	21.50	25.19	28.48

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+17dBm (dB)		
		@LO (dBm)		
		+14	+17	+20
510.1	110.1	9.02	8.11	7.12
610.1	210.1	9.18	8.19	6.92
710.1	310.1	4.55	4.32	3.70
810.1	410.1	3.83	3.16	2.24
910.1	510.1	2.77	1.72	0.94
1010.1	610.1	2.20	1.28	0.75
1110.1	710.1	0.59	0.81	0.74
1210.1	810.1	1.90	1.24	0.78
1310.1	910.1	7.19	4.75	2.77
1410.1	1010.1	2.87	1.80	1.05
1510.1	1110.1	1.36	0.96	0.62
1610.1	1210.1	1.97	1.52	0.99
1710.1	1310.1	2.05	1.25	0.72
1810.1	1410.1	2.07	1.22	0.65
1910.1	1510.1	2.19	1.28	0.58
2010.1	1610.1	2.11	1.34	0.86
2110.1	1710.1	1.32	1.06	0.73
2210.1	1810.1	1.10	0.72	0.44
2310.1	1910.1	1.35	0.89	0.50
2410.1	2010.1	0.99	0.44	0.30
2510.1	2110.1	1.08	0.48	0.16
2610.1	2210.1	1.28	0.65	0.25
2710.1	2310.1	1.44	0.80	0.33
2810.1	2410.1	1.50	1.01	0.59
2910.1	2510.1	1.23	0.79	0.40
3010.1	2610.1	1.26	0.78	0.35
3090.1	2690.1	1.24	0.73	0.33
3190.1	2790.1	1.20	0.66	0.33
3270.1	2870.1	1.02	0.46	0.23
3370.1	2970.1	1.03	0.32	0.13
3450.1	3050.1	1.01	0.31	0.07
3550.1	3150.1	1.32	0.64	0.22
3630.1	3230.1	1.34	0.69	0.23
3730.1	3330.1	1.20	0.67	0.30
3810.1	3410.1	1.13	0.63	0.35
3910.1	3510.1	0.95	0.57	0.32
3990.1	3590.1	0.85	0.58	0.40
4090.1	3690.1	0.74	0.57	0.50
4170.1	3770.1	0.80	0.52	0.38
4270.1	3870.1	0.70	0.60	0.48

REV. X2

MCA-ED12805/1

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2760.1001MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1670.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=3850.1001MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+17			+17			+17
2090.0	670.1	11.64	10.0	1680.1	32.17	2490.0	1360.1	10.98
1977.0	783.1	8.14	70.0	1740.1	16.02	2430.0	1420.1	10.57
1863.9	896.2	6.93	130.0	1800.1	11.74	2370.0	1480.1	10.17
1750.9	1009.2	7.23	190.0	1860.1	9.55	2310.0	1540.1	9.86
1637.8	1122.3	7.70	250.0	1920.1	8.40	2250.0	1600.1	9.22
1524.8	1235.3	8.41	310.0	1980.1	7.87	2190.0	1660.1	9.14
1411.7	1348.4	7.77	370.0	2040.1	7.69	2130.0	1720.1	8.93
1298.7	1461.4	8.20	430.0	2100.1	7.47	2070.0	1780.1	9.04
1185.7	1574.4	8.33	490.0	2160.1	7.27	2010.0	1840.1	9.19
1072.6	1687.5	8.41	550.0	2220.1	6.96	1950.0	1900.1	8.75
959.6	1800.5	8.17	610.0	2280.1	7.10	1890.0	1960.1	8.80
846.5	1913.6	7.78	670.0	2340.1	7.17	1830.0	2020.1	9.07
733.5	2026.6	7.52	730.0	2400.1	7.19	1770.0	2080.1	9.45
620.4	2139.7	7.13	790.0	2460.1	7.55	1710.0	2140.1	9.45
507.4	2252.7	6.95	850.0	2520.1	7.60	1650.0	2200.1	9.35
394.3	2365.8	7.00	910.0	2580.1	7.61	1590.0	2260.1	9.26
281.3	2478.8	7.95	990.0	2660.1	7.75	1530.0	2320.1	9.13
168.3	2591.8	9.99	1050.0	2720.1	7.81	1470.0	2380.1	9.19
55.2	2704.9	17.13	1130.0	2800.1	7.92	1410.0	2440.1	9.28
45.2	2805.3	18.73	1190.0	2860.1	8.06	1350.0	2500.1	9.50
115.7	2875.8	11.73	1270.0	2940.1	8.16	1290.0	2560.1	9.90
203.7	2963.8	8.70	1330.0	3000.1	8.30	1230.0	2620.1	9.47
274.1	3034.2	7.54	1410.0	3080.1	7.96	1170.0	2680.1	9.37
362.2	3122.3	6.92	1470.0	3140.1	7.79	1110.0	2740.1	9.31
432.6	3192.7	6.81	1550.0	3220.1	7.49	1050.0	2800.1	9.23
520.7	3280.8	7.15	1610.0	3280.1	7.50	990.0	2860.1	9.20
591.1	3351.2	7.39	1690.0	3360.1	7.56	910.0	2940.1	8.99
679.1	3439.2	7.87	1750.0	3420.1	7.61	850.0	3000.1	8.94
749.6	3509.7	8.16	1830.0	3500.1	7.97	770.0	3080.1	8.86
837.6	3597.7	8.18	1890.0	3560.1	8.19	710.0	3140.1	8.78
908.0	3668.1	8.36	1970.0	3640.1	8.68	630.0	3220.1	8.52
996.1	3756.2	8.47	2030.0	3700.1	8.81	570.0	3280.1	8.42
1066.5	3826.6	8.56	2110.0	3780.1	8.41	490.0	3360.1	8.18
1154.6	3914.7	8.63	2170.0	3840.1	8.55	430.0	3420.1	8.25
1225.0	3985.1	8.83	2250.0	3920.1	8.96	350.0	3500.1	8.68
1313.0	4073.1	9.38	2310.0	3980.1	9.73	290.0	3560.1	9.09
1383.5	4143.6	9.57	2390.0	4060.1	10.07	210.0	3640.1	10.34
1471.5	4231.6	9.28	2450.0	4120.1	10.02	150.0	3700.1	12.23
1542.0	4302.1	9.17	2530.0	4200.1	10.49	70.0	3780.1	17.98
1630.0	4390.1	9.49	2590.0	4260.1	11.16	10.0	3840.1	34.37

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+14	+17	+20	+14	+17	+20
110.1	66.56	66.58	66.52	52.47	52.59	52.79
210.1	62.95	62.93	62.87	41.25	41.67	42.26
310.1	59.45	57.63	56.10	33.96	34.81	35.50
410.1	48.33	47.83	48.36	29.04	29.76	30.45
510.1	41.19	41.26	41.42	25.98	26.50	27.02
610.1	31.78	31.57	31.52	21.88	21.96	22.09
710.1	35.59	35.37	35.18	25.03	25.73	26.17
810.1	35.87	35.21	34.64	26.11	26.76	27.17
910.1	34.50	34.20	33.85	26.78	27.27	27.64
1010.1	31.35	30.43	29.91	28.03	28.27	28.36
1110.1	34.02	32.92	32.44	27.24	26.92	26.88
1210.1	33.09	31.63	30.83	27.22	26.86	26.53
1310.1	36.30	34.45	33.47	29.45	29.93	30.45
1410.1	37.92	38.25	38.30	38.06	39.67	41.27
1510.1	41.13	43.77	45.52	36.55	38.14	39.20
1610.1	40.50	42.77	44.12	36.54	38.18	39.07
1710.1	39.15	40.44	40.85	36.60	38.85	40.16
1810.1	36.44	36.88	37.04	37.23	41.28	43.85
1910.1	33.99	33.99	33.48	37.42	39.22	39.62
2010.1	31.24	30.81	30.21	31.98	32.39	32.33
2110.1	37.76	38.11	38.15	31.81	32.77	33.28
2210.1	42.95	44.24	45.25	34.32	35.23	35.53
2310.1	45.22	46.61	49.07	37.36	38.24	38.46
2410.1	44.01	41.26	40.67	39.68	39.24	38.62
2510.1	41.57	37.07	35.57	35.86	34.28	33.47
2610.1	45.51	40.60	39.13	36.56	38.01	38.65
2690.1	55.15	46.74	44.53	37.14	38.82	38.93
2790.1	42.72	41.05	40.12	31.91	31.34	30.79
2870.1	42.43	42.08	41.33	29.84	29.64	29.38
2970.1	37.87	37.95	37.29	29.80	29.68	29.78
3050.1	35.39	35.81	35.12	28.71	28.67	28.51
3150.1	34.71	34.99	34.22	27.13	27.12	26.87
3230.1	35.55	36.38	35.90	27.73	27.68	27.39
3330.1	34.57	35.70	35.50	29.79	30.04	30.06
3410.1	32.12	33.18	33.11	30.12	30.92	31.38
3510.1	30.17	31.37	31.84	31.56	31.94	32.16
3590.1	29.66	30.20	30.75	36.64	37.33	37.69
3690.1	30.08	30.12	30.27	34.30	35.50	36.74
3770.1	32.33	32.27	31.97	34.65	36.19	37.94
3870.1	34.70	34.85	34.44	36.30	38.29	41.17

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
510.1	110.1	25.03	27.79	30.38
610.6	210.6	37.29	36.76	33.59
711.2	311.2	27.32	27.22	30.36
811.7	411.7	26.83	27.61	27.68
912.2	512.2	26.52	26.86	27.18
1012.8	612.8	24.66	24.28	24.39
1113.3	713.3	40.00	36.02	34.61
1213.8	813.8	34.78	39.23	44.72
1314.4	914.4	28.36	28.10	27.90
1414.9	1014.9	25.95	26.12	26.49
1515.4	1115.4	23.44	23.02	22.48
1616.0	1216.0	21.46	20.89	20.28
1716.5	1316.5	18.31	18.74	18.93
1817.1	1417.1	17.75	19.59	20.90
1917.6	1517.6	20.54	21.55	22.19
2018.1	1618.1	23.37	24.21	24.57
2118.7	1718.7	19.89	20.00	20.13
2219.2	1819.2	19.11	19.35	19.62
2319.7	1919.7	19.49	19.31	19.44
2420.3	2020.3	22.13	22.61	22.88
2520.8	2120.8	23.12	23.27	23.37
2621.3	2221.3	23.84	23.96	23.91
2721.9	2321.9	22.89	22.05	21.31
2822.4	2422.4	23.59	23.51	23.45
2902.8	2502.8	24.81	24.77	24.63
3003.4	2603.4	23.33	22.77	22.26
3083.8	2683.8	26.93	26.46	25.97
3184.3	2784.3	25.92	25.11	24.54
3264.8	2864.8	32.23	31.34	30.88
3365.3	2965.3	36.84	34.49	33.18
3445.7	3045.7	43.28	41.31	38.41
3546.2	3146.2	34.72	36.85	38.36
3626.7	3226.7	30.07	30.56	30.77
3727.2	3327.2	27.41	27.16	26.86
3807.6	3407.6	28.04	27.70	27.30
3908.2	3508.2	25.54	24.71	24.23
3988.6	3588.6	26.10	24.87	24.10
4089.1	3689.1	31.00	29.20	27.40
4169.6	3769.6	45.86	39.45	33.74
4270.1	3870.1	31.63	34.14	35.51

Frequency Mixer

MCA-ED12805/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=3290MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+14	+17	+20		+14	+17	+20		+14	+17	+20
510.1	110.1	6.39	5.75	5.13	110.1	3.08	3.08	3.07	10.0	25.94	25.56	25.56
610.1	210.1	3.00	2.72	2.48	210.1	3.04	3.04	3.04	89.5	13.39	12.26	11.38
710.1	310.1	2.09	1.74	1.53	310.1	3.06	3.06	3.06	169.0	5.22	4.78	4.50
810.1	410.1	1.33	1.15	1.09	410.1	3.18	3.18	3.18	248.5	2.63	2.50	2.47
910.1	510.1	1.28	1.16	1.13	510.1	3.48	3.48	3.48	328.0	1.53	1.55	1.65
1010.1	610.1	1.59	1.51	1.47	610.1	3.72	3.70	3.69	407.6	1.09	1.28	1.45
1110.1	710.1	1.58	1.66	1.75	710.1	4.03	4.02	4.00	487.1	1.41	1.50	1.61
1210.1	810.1	1.78	1.69	1.66	810.1	3.89	3.87	3.83	566.6	1.75	1.78	1.85
1310.1	910.1	2.38	2.28	2.23	910.1	3.46	3.45	3.42	646.1	2.05	2.01	2.03
1410.1	1010.1	2.47	2.30	2.25	1010.1	3.13	3.11	3.08	725.6	2.25	2.18	2.18
1510.1	1110.1	2.62	2.34	2.21	1110.1	2.98	2.97	2.95	805.1	2.37	2.26	2.23
1610.1	1210.1	2.71	2.40	2.22	1210.1	2.82	2.80	2.79	884.6	2.48	2.34	2.27
1710.1	1310.1	2.54	2.23	2.07	1310.1	2.78	2.78	2.77	964.1	2.47	2.30	2.22
1810.1	1410.1	2.55	2.17	1.94	1410.1	2.77	2.77	2.77	1043.7	2.47	2.25	2.15
1910.1	1510.1	2.39	2.06	1.86	1510.1	2.72	2.72	2.72	1123.2	2.38	2.12	1.99
2010.1	1610.1	2.32	2.03	1.85	1610.1	2.68	2.68	2.68	1202.7	2.25	1.94	1.77
2110.1	1710.1	2.56	2.20	1.99	1710.1	2.66	2.67	2.67	1282.2	2.22	1.92	1.74
2210.1	1810.1	2.46	2.13	1.94	1810.1	2.66	2.67	2.68	1361.7	2.10	1.81	1.64
2310.1	1910.1	2.40	2.10	1.92	1910.1	2.67	2.67	2.66	1441.2	1.90	1.60	1.43
2410.1	2010.1	2.08	1.73	1.53	2010.1	2.61	2.59	2.59	1520.7	1.71	1.44	1.27
2510.1	2110.1	1.77	1.47	1.32	2110.1	2.77	2.79	2.80	1600.2	1.53	1.28	1.12
2610.1	2210.1	1.58	1.34	1.23	2210.1	2.99	3.01	3.04	1679.8	1.41	1.17	1.04
2710.1	2310.1	1.45	1.23	1.14	2310.1	3.21	3.24	3.26	1759.3	1.28	1.08	1.11
2810.1	2410.1	1.37	1.14	1.08	2410.1	3.43	3.42	3.42	1838.8	1.20	1.10	1.21
2910.1	2510.1	1.28	1.06	1.15	2510.1	3.63	3.60	3.58	1918.3	1.27	1.23	1.31
3010.1	2610.1	1.28	1.12	1.15	2610.1	4.04	4.07	4.06	2017.7	1.42	1.49	1.61
3090.1	2690.1	1.29	1.24	1.30	2690.1	4.28	4.29	4.28	2097.2	1.52	1.54	1.63
3190.1	2790.1	1.39	1.42	1.52	2790.1	4.37	4.33	4.27	2196.6	1.91	1.84	1.85
3270.1	2870.1	1.42	1.54	1.68	2870.1	4.33	4.28	4.21	2276.1	2.40	2.32	2.30
3370.1	2970.1	1.55	1.67	1.81	2970.1	3.98	3.90	3.84	2375.5	2.84	2.81	2.85
3450.1	3050.1	1.60	1.72	1.88	3050.1	3.61	3.54	3.47	2455.0	3.06	2.94	2.93
3550.1	3150.1	1.72	1.81	1.93	3150.1	3.14	3.08	3.02	2554.4	3.30	3.03	2.89
3630.1	3230.1	1.89	1.91	1.98	3230.1	2.80	2.74	2.69	2633.9	3.48	3.14	2.92
3730.1	3330.1	2.17	2.11	2.12	3330.1	2.48	2.44	2.40	2733.3	3.65	3.44	3.31
3810.1	3410.1	2.52	2.39	2.34	3410.1	2.24	2.20	2.17	2812.8	4.32	4.32	4.33
3910.1	3510.1	2.95	2.76	2.69	3510.1	2.07	2.03	2.00	2912.2	4.84	4.86	4.91
3990.1	3590.1	3.19	2.87	2.73	3590.1	2.00	1.97	1.95	2991.7	4.91	4.91	4.99
4090.1	3690.1	3.79	3.40	3.20	3690.1	1.93	1.91	1.89	3091.1	4.24	4.18	4.26
4170.1	3770.1	4.67	4.27	4.07	3770.1	1.89	1.88	1.86	3170.6	3.61	3.48	3.50
4270.1	3870.1	5.03	4.44	4.15	3870.1	1.84	1.84	1.82	3270.0	2.86	2.58	2.47

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	19	10	23	34	42	52	47	47	48	68
1	-	15	+0	38	13	45	25	46	33	47	51	57
2	60	47	36	41	41	41	51	40	57	52	63	64
3	>90	58	53	64	47	67	49	78	53	69	61	73
4	>90	75	71	79	78	>85	70	70	75	66	77	72
5	>90	>85	82	84	79	>85	76	78	77	84	75	>85
6	>90	>85	>85	>85	>85	>85	>85	83	>85	>85	>85	83
7	>90	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85
8	>90	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85
9	---	---	>85	>85	>85	>85	>85	>85	>85	>85	>85	>85
10	---	---	---	>85	>85	>85	>85	>85	>85	>85	>85	>85
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

Test conditions:

RF IN: 2760 MHz; 2.00 dBm.
LO IN: 2360 MHz; +17.00 dBm
IF OUT: 400 MHz; -5.12 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	31	21	39	49	51	58	62	56	64	74
1	-	15	+0	34	14	46	27	46	38	50	62	62
2	41	38	28	34	41	34	44	35	58	54	58	65
3	62	39	33	46	29	53	35	58	41	61	51	66
4	85	51	50	58	48	55	57	50	67	47	73	62
5	>90	66	65	53	47	61	47	71	50	64	51	66
6	>90	71	75	78	75	64	63	64	73	64	64	64
7	>90	77	86	82	75	76	75	70	60	71	62	66
8	>90	>94	83	92	78	82	82	70	84	>94	75	72
9	---	---	>94	>94	93	89	82	88	73	85	69	74
10	---	---	---	94	91	>94	85	89	80	82	90	76
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions:

RF IN: 2760 MHz; 12.00 dBm.
LO IN: 2360 MHz; +17.00 dBm
IF OUT: 400 MHz; 4.46 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.