

Frequency Mixer

MCA-ED13249/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=470MHz (dB)		
		@LO (dBm)		
		+15	+17	+19
2040.1	1570.1	11.58	10.45	9.36
2070.1	1600.1	10.75	9.76	8.91
2100.1	1630.1	10.93	10.00	9.25
2130.1	1660.1	11.16	10.07	9.09
2160.1	1690.1	10.45	9.37	8.49
2190.1	1720.1	10.31	9.19	8.33
2220.1	1750.1	10.02	8.95	8.13
2250.1	1780.1	9.28	8.40	7.79
2280.1	1810.1	9.03	8.24	7.69
2310.1	1840.1	8.81	8.05	7.52
2340.1	1870.1	8.18	7.60	7.24
2370.1	1900.1	7.91	7.48	7.23
2400.1	1930.1	7.83	7.43	7.19
2440.1	1970.1	7.52	7.31	7.22
2470.1	2000.1	7.54	7.36	7.30
2510.1	2040.1	7.45	7.35	7.34
2540.1	2070.1	7.52	7.45	7.46
2580.1	2110.1	7.53	7.43	7.41
2610.1	2140.1	7.50	7.42	7.40
2650.1	2180.1	7.76	7.68	7.64
2680.1	2210.1	7.79	7.68	7.61
2720.1	2250.1	7.95	7.81	7.71
2750.1	2280.1	8.02	7.85	7.71
2790.1	2320.1	8.06	7.85	7.71
2820.1	2350.1	8.34	8.07	7.88
2860.1	2390.1	8.54	8.21	7.99
2890.1	2420.1	9.06	8.84	8.66
2930.1	2460.1	9.44	9.14	8.87
2960.1	2490.1	9.44	9.12	8.84
3000.1	2530.1	9.80	9.41	9.09
3030.1	2560.1	10.03	9.60	9.21
3070.1	2600.1	10.11	9.64	9.18
3100.1	2630.1	10.58	9.99	9.41
3140.1	2670.1	10.76	10.06	9.40
3170.1	2700.1	10.73	9.99	9.31
3210.1	2740.1	11.37	10.45	9.63
3240.1	2770.1	11.31	10.34	9.58
3280.1	2810.1	11.67	10.64	9.87
3310.1	2840.1	12.35	11.19	10.33

RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)		
		@LO (dBm)		
		+15	+17	+19
2040.1	1570.1	15.45	18.80	25.98
2070.1	1600.1	19.03	19.66	18.29
2100.1	1630.1	16.95	17.95	18.90
2130.1	1660.1	16.19	19.74	24.77
2160.1	1690.1	17.66	24.45	22.36
2190.1	1720.1	17.74	21.60	21.89
2220.1	1750.1	18.18	20.62	22.20
2250.1	1780.1	18.96	20.87	24.19
2280.1	1810.1	19.34	21.79	25.23
2310.1	1840.1	20.01	22.31	25.06
2340.1	1870.1	20.96	23.17	26.13
2370.1	1900.1	21.40	23.73	27.14
2400.1	1930.1	22.00	24.58	28.64
2440.1	1970.1	22.90	26.49	33.68
2470.1	2000.1	23.88	27.83	35.97
2510.1	2040.1	25.79	30.00	35.76
2540.1	2070.1	26.50	30.27	35.15
2580.1	2110.1	26.01	29.18	32.74
2610.1	2140.1	26.68	29.63	32.24
2650.1	2180.1	26.98	29.82	32.76
2680.1	2210.1	27.83	31.01	34.99
2720.1	2250.1	26.15	28.99	32.44
2750.1	2280.1	25.46	27.93	30.48
2790.1	2320.1	24.41	26.86	28.68
2820.1	2350.1	23.75	25.73	27.38
2860.1	2390.1	24.16	25.99	27.79
2890.1	2420.1	22.17	25.40	30.02
2930.1	2460.1	23.84	27.10	29.43
2960.1	2490.1	23.30	25.93	28.09
3000.1	2530.1	22.44	24.54	26.64
3030.1	2560.1	23.36	25.30	27.69
3070.1	2600.1	26.10	28.32	30.51
3100.1	2630.1	26.73	31.22	34.43
3140.1	2670.1	21.36	23.07	24.59
3170.1	2700.1	19.25	20.87	22.74
3210.1	2740.1	18.94	20.29	21.98
3240.1	2770.1	19.58	21.04	22.25
3280.1	2810.1	21.55	22.25	22.84
3310.1	2840.1	23.72	22.84	22.85

RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+15dBm (dB)		
		@LO (dBm)		
		+15	+17	+19
2040.1	1570.1	-0.98	-0.64	-0.17
2070.1	1600.1	-0.49	-0.23	0.09
2100.1	1630.1	-0.66	-0.45	-0.20
2130.1	1660.1	-1.03	-0.64	-0.15
2160.1	1690.1	-0.80	-0.37	0.11
2190.1	1720.1	-0.74	-0.27	0.17
2220.1	1750.1	-0.61	-0.15	0.23
2250.1	1780.1	-0.26	0.11	0.34
2280.1	1810.1	-0.13	0.18	0.35
2310.1	1840.1	-0.03	0.22	0.35
2340.1	1870.1	0.18	0.30	0.29
2370.1	1900.1	0.29	0.29	0.20
2400.1	1930.1	0.34	0.29	0.17
2440.1	1970.1	0.37	0.22	0.11
2470.1	2000.1	0.32	0.19	0.09
2510.1	2040.1	0.22	0.10	0.04
2540.1	2070.1	0.14	0.06	0.03
2580.1	2110.1	0.13	0.06	0.04
2610.1	2140.1	0.12	0.07	0.05
2650.1	2180.1	0.10	0.03	0.01
2680.1	2210.1	0.08	0.02	0.01
2720.1	2250.1	0.17	0.04	0.00
2750.1	2280.1	0.25	0.09	0.00
2790.1	2320.1	0.43	0.20	0.06
2820.1	2350.1	0.58	0.34	0.16
2860.1	2390.1	0.71	0.48	0.30
2890.1	2420.1	0.70	0.41	0.18
2930.1	2460.1	0.62	0.43	0.24
2960.1	2490.1	0.55	0.38	0.22
3000.1	2530.1	0.38	0.30	0.18
3030.1	2560.1	0.21	0.19	0.13
3070.1	2600.1	0.08	0.15	0.16
3100.1	2630.1	0.02	0.17	0.28
3140.1	2670.1	0.32	0.52	0.60
3170.1	2700.1	0.57	0.71	0.69
3210.1	2740.1	0.45	0.66	0.67
3240.1	2770.1	0.46	0.59	0.56
3280.1	2810.1	0.29	0.42	0.43
3310.1	2840.1	-0.05	0.22	0.33

REV. X2

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2600.1001MHz (dB)
		@LO (dBm)
		+17
930.0	1670.1	11.19
884.0	1716.1	10.37
838.0	1762.1	9.72
792.0	1808.1	9.18
746.0	1854.1	8.70
700.0	1900.1	8.20
654.0	1946.1	7.94
608.0	1992.1	7.90
562.0	2038.1	7.58
516.0	2084.1	7.53
470.0	2130.1	7.35
424.0	2176.1	7.33
378.0	2222.1	7.31
332.0	2268.1	7.22
286.0	2314.1	6.99
240.0	2360.1	6.93
194.0	2406.1	7.33
148.0	2452.1	7.79
102.0	2498.1	8.08
56.0	2544.1	10.12
10.0	2590.1	22.10
27.5	2627.6	14.78
62.5	2662.6	10.02
97.5	2697.6	8.62
132.5	2732.6	8.17
167.5	2767.6	7.90
202.5	2802.6	7.98
237.5	2837.6	8.27
272.5	2872.6	8.28
307.5	2907.6	8.65
342.5	2942.6	8.90
377.5	2977.6	8.81
412.5	3012.6	9.18
447.5	3047.6	9.23
482.5	3082.6	9.20
535.0	3135.1	9.36
570.0	3170.1	9.67
622.5	3222.6	10.54
657.5	3257.6	10.33
710.0	3310.1	10.53

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2500.1001MHz (dB)
		@LO (dBm)
		+17
10.0	2510.1	21.54
30.0	2530.1	13.46
50.0	2550.1	10.58
70.0	2570.1	9.11
90.0	2590.1	8.39
110.0	2610.1	8.03
130.0	2630.1	7.89
150.0	2650.1	7.85
170.0	2670.1	7.80
190.0	2690.1	7.82
210.0	2710.1	7.90
230.0	2730.1	8.02
250.0	2750.1	8.10
270.0	2770.1	8.07
290.0	2790.1	8.16
310.0	2810.1	8.42
330.0	2830.1	8.64
350.0	2850.1	8.74
370.0	2870.1	8.70
390.0	2890.1	8.89
410.0	2910.1	9.14
430.0	2930.1	9.33
450.0	2950.1	9.41
470.0	2970.1	9.34
490.0	2990.1	9.41
510.0	3010.1	9.53
530.0	3030.1	9.66
550.0	3050.1	9.49
570.0	3070.1	9.41
590.0	3090.1	9.49
610.0	3110.1	9.75
630.0	3130.1	9.81
650.0	3150.1	9.84
670.0	3170.1	9.91
690.0	3190.1	10.22
710.0	3210.1	10.56
730.0	3230.1	10.75
760.0	3260.1	10.33
780.0	3280.1	10.36
810.0	3310.1	10.56

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2700.1001MHz (dB)
		@LO (dBm)
		+17
1030.0	1670.1	11.21
1010.0	1690.1	10.89
990.0	1710.1	10.74
970.0	1730.1	10.55
950.0	1750.1	10.32
930.0	1770.1	9.92
910.0	1790.1	9.57
890.0	1810.1	9.26
870.0	1830.1	9.17
850.0	1850.1	9.05
830.0	1870.1	8.82
810.0	1890.1	8.57
790.0	1910.1	8.45
770.0	1930.1	8.31
750.0	1950.1	8.20
730.0	1970.1	8.05
690.0	2010.1	7.93
670.0	2030.1	7.81
630.0	2070.1	7.74
610.0	2090.1	7.89
570.0	2130.1	7.75
550.0	2150.1	7.74
510.0	2190.1	7.82
490.0	2210.1	7.76
450.0	2250.1	7.67
430.0	2270.1	7.54
390.0	2310.1	7.41
370.0	2330.1	7.38
330.0	2370.1	7.35
310.0	2390.1	7.33
270.0	2430.1	7.91
250.0	2450.1	7.92
210.0	2490.1	7.75
190.0	2510.1	7.74
150.0	2550.1	7.89
130.0	2570.1	7.96
90.0	2610.1	8.68
70.0	2630.1	9.65
30.0	2670.1	14.44
10.0	2690.1	22.81

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+15	+17	+19	+15	+17	+19
1570.1	30.59	31.85	32.89	32.67	34.30	36.26
1600.1	32.31	33.65	34.72	32.49	34.22	36.48
1630.1	33.40	34.61	35.54	32.00	33.49	35.28
1660.1	33.99	35.18	36.52	31.15	32.41	33.94
1690.1	34.70	36.05	37.49	30.54	31.71	33.02
1720.1	34.94	36.35	37.81	29.73	30.76	31.93
1750.1	35.20	36.58	37.90	29.09	30.03	31.05
1780.1	35.71	37.05	38.14	28.58	29.40	30.20
1810.1	35.83	37.22	38.33	28.05	28.81	29.51
1840.1	35.97	37.41	38.61	27.58	28.37	29.10
1870.1	36.74	38.13	39.19	27.16	27.91	28.58
1900.1	36.72	37.72	38.34	26.51	27.19	27.76
1930.1	35.95	36.49	36.76	25.77	26.43	26.98
1970.1	34.69	34.68	34.61	24.86	25.31	25.76
2000.1	33.49	33.09	32.84	24.08	24.50	25.01
2040.1	31.96	31.39	30.78	23.51	24.11	24.75
2070.1	32.65	31.98	31.43	23.78	24.46	25.16
2110.1	33.87	33.02	32.07	24.47	24.95	25.23
2140.1	34.18	33.39	32.05	24.51	24.76	24.53
2180.1	34.83	34.08	32.80	24.63	24.72	24.52
2210.1	34.65	34.06	32.89	24.92	25.02	24.88
2250.1	35.38	35.08	34.21	25.48	25.59	25.63
2280.1	35.66	35.62	34.73	26.04	26.22	26.18
2320.1	35.41	35.48	34.94	26.72	26.71	26.88
2350.1	35.43	35.85	35.40	27.29	27.27	27.39
2390.1	40.90	40.53	39.46	27.91	27.90	28.18
2420.1	38.88	35.35	33.92	28.50	29.16	29.84
2460.1	35.42	35.11	35.33	28.31	29.01	29.66
2490.1	35.62	35.92	36.62	28.17	28.83	29.55
2530.1	36.03	37.10	38.34	28.13	28.80	29.57
2560.1	36.22	37.58	38.91	28.21	28.90	29.55
2600.1	36.66	38.01	39.29	28.53	29.32	30.04
2630.1	36.67	38.12	39.31	28.69	29.58	30.35
2670.1	36.57	37.93	39.14	28.11	28.77	29.24
2700.1	37.28	39.01	40.80	27.58	28.18	28.67
2740.1	38.01	40.19	42.80	27.54	28.21	28.87
2770.1	39.00	41.40	43.99	27.58	28.20	29.11
2810.1	40.52	43.69	46.74	27.49	28.17	29.10
2840.1	41.92	45.79	48.46	27.33	28.03	28.91

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+15	+17	+19
2040.1	1570.1	16.69	16.90	17.34
2070.1	1600.1	17.02	17.22	17.77
2100.1	1630.1	17.30	17.42	17.89
2130.1	1660.1	17.37	17.51	18.12
2160.1	1690.1	17.37	17.76	18.52
2190.1	1720.1	17.54	17.97	18.70
2220.1	1750.1	17.77	18.25	18.99
2250.1	1780.1	18.29	19.03	19.89
2280.1	1810.1	18.88	19.67	20.54
2310.1	1840.1	19.18	19.91	20.67
2340.1	1870.1	20.02	20.71	21.36
2370.1	1900.1	20.86	21.36	21.84
2400.1	1930.1	21.54	21.95	22.13
2440.1	1970.1	22.65	22.90	22.81
2470.1	2000.1	23.50	23.68	23.40
2510.1	2040.1	24.02	24.11	23.76
2540.1	2070.1	24.20	24.26	23.96
2580.1	2110.1	24.60	24.46	24.00
2610.1	2140.1	25.52	25.28	24.64
2650.1	2180.1	28.32	28.38	27.66
2680.1	2210.1	29.80	30.21	29.54
2720.1	2250.1	29.95	31.16	31.36
2750.1	2280.1	29.77	31.69	33.11
2790.1	2320.1	28.89	31.02	34.30
2820.1	2350.1	27.53	29.19	32.48
2860.1	2390.1	25.11	25.52	26.27
2890.1	2420.1	21.67	21.68	22.25
2930.1	2460.1	22.42	22.88	23.75
2960.1	2490.1	22.09	22.80	23.92
3000.1	2530.1	20.47	21.08	22.37
3030.1	2560.1	19.36	19.83	21.09
3070.1	2600.1	18.33	18.68	19.71
3100.1	2630.1	17.68	17.92	18.81
3140.1	2670.1	17.32	17.82	18.96
3170.1	2700.1	16.96	17.39	18.35
3210.1	2740.1	16.23	16.54	17.21
3240.1	2770.1	15.74	16.00	16.45
3280.1	2810.1	15.11	15.29	15.62
3310.1	2840.1	14.59	14.68	14.93

Frequency Mixer

MCA-ED13249/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=2230MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+15	+17	+19		+15	+17	+19		+15	+17	+19
2040.1	1570.1	2.81	2.39	2.05	1570.1	28.03	28.03	27.59	70.0	3.00	2.95	2.92
2070.1	1600.1	2.59	2.21	1.89	1600.1	29.46	28.96	28.03	130.0	1.61	1.67	1.76
2100.1	1630.1	2.63	2.21	1.86	1630.1	29.96	28.49	26.74	190.0	1.36	1.47	1.60
2130.1	1660.1	2.46	2.05	1.71	1660.1	29.46	28.96	28.03	250.0	1.42	1.50	1.59
2160.1	1690.1	2.18	1.82	1.54	1690.1	28.03	27.59	26.74	310.0	1.58	1.61	1.67
2190.1	1720.1	2.11	1.75	1.50	1720.1	26.74	25.19	23.49	370.0	1.78	1.79	1.83
2220.1	1750.1	1.99	1.66	1.42	1750.1	25.56	24.48	23.49	430.0	2.05	2.04	2.04
2250.1	1780.1	1.77	1.51	1.34	1780.1	24.48	23.49	22.87	490.0	2.10	2.06	2.04
2280.1	1810.1	1.70	1.49	1.35	1810.1	22.58	21.46	20.22	550.0	2.25	2.19	2.16
2310.1	1840.1	1.66	1.46	1.34	1840.1	20.45	19.32	18.30	610.0	2.36	2.29	2.23
2340.1	1870.1	1.54	1.39	1.33	1870.1	17.93	17.22	16.72	670.0	2.30	2.20	2.11
2370.1	1900.1	1.49	1.39	1.36	1900.1	15.26	14.50	13.81	730.0	2.34	2.23	2.13
2400.1	1930.1	1.46	1.37	1.36	1930.1	12.71	12.01	11.31	790.0	2.35	2.22	2.10
2440.1	1970.1	1.37	1.37	1.43	1970.1	9.69	9.28	8.90	850.0	2.23	2.08	1.95
2470.1	2000.1	1.38	1.41	1.47	2000.1	7.53	7.17	6.81	910.0	2.14	2.01	1.88
2510.1	2040.1	1.41	1.47	1.55	2040.1	4.93	4.72	4.52	970.0	1.94	1.82	1.70
2540.1	2070.1	1.48	1.55	1.64	2070.1	3.42	3.28	3.16	1030.0	1.80	1.68	1.55
2580.1	2110.1	1.50	1.58	1.67	2110.1	2.15	2.09	2.04	1090.0	1.68	1.56	1.45
2610.1	2140.1	1.55	1.63	1.72	2140.1	1.68	1.68	1.70	1150.0	1.57	1.46	1.35
2650.1	2180.1	1.58	1.64	1.72	2180.1	1.79	1.87	1.97	1210.0	1.44	1.34	1.24
2680.1	2210.1	1.61	1.67	1.75	2210.1	2.32	2.45	2.61	1270.0	1.21	1.12	1.04
2720.1	2250.1	1.66	1.72	1.81	2250.1	3.31	3.49	3.69	1330.0	1.12	1.05	1.03
2750.1	2280.1	1.67	1.73	1.81	2280.1	4.17	4.41	4.66	1390.0	1.06	1.06	1.13
2790.1	2320.1	1.68	1.74	1.82	2320.1	5.36	5.65	5.91	1450.0	1.13	1.18	1.26
2820.1	2350.1	1.73	1.78	1.86	2350.1	6.07	6.32	6.51	1510.0	1.34	1.40	1.48
2860.1	2390.1	1.74	1.79	1.86	2390.1	6.68	6.89	7.11	1550.0	1.43	1.50	1.59
2890.1	2420.1	1.75	1.80	1.89	2420.1	7.90	8.20	8.43	1610.0	1.68	1.75	1.84
2930.1	2460.1	1.82	1.84	1.90	2460.1	10.37	10.62	10.75	1650.0	1.81	1.88	1.97
2960.1	2490.1	1.82	1.82	1.88	2490.1	11.77	12.18	12.52	1710.0	2.18	2.24	2.34
3000.1	2530.1	1.94	1.91	1.93	2530.1	13.09	13.19	12.99	1750.0	2.35	2.41	2.49
3030.1	2560.1	2.03	1.97	1.95	2560.1	14.26	14.38	14.26	1810.0	2.91	2.96	3.05
3070.1	2600.1	2.07	2.00	1.96	2600.1	15.13	15.26	15.26	1850.0	3.14	3.20	3.27
3100.1	2630.1	2.21	2.11	2.05	2630.1	15.26	15.00	14.26	1910.0	3.77	3.84	3.93
3140.1	2670.1	2.30	2.19	2.13	2670.1	16.89	16.72	16.56	1950.0	3.90	4.00	4.10
3170.1	2700.1	2.38	2.26	2.20	2700.1	17.57	17.39	17.05	2010.0	4.25	4.39	4.55
3210.1	2740.1	2.69	2.52	2.41	2740.1	17.75	16.89	15.81	2050.0	4.06	4.21	4.38
3240.1	2770.1	2.76	2.58	2.48	2770.1	18.50	18.11	17.75	2110.0	4.04	4.22	4.45
3280.1	2810.1	2.99	2.80	2.69	2810.1	17.93	17.22	16.41	2150.0	3.73	3.89	4.10
3310.1	2840.1	3.25	3.00	2.86	2840.1	17.75	16.72	15.67	2210.0	3.50	3.60	3.74

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+0	2	13	19	20	26	26	33	45	54
1	-	18	+0	27	17	25	27	37	30	47	51	63
2	62	37	52	46	47	50	45	72	57	65	64	63
3	>90	>82	67	>82	72	71	66	72	73	76	76	>82
4	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
5	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
6	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
7	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
8	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
9	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
10	---	---	>82	>82	>82	>82	>82	>82	>82	>82	>82	>82
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

Test conditions:

RF IN: 2600 MHz; 0.00 dBm.
LO IN: 2130 MHz; +17.00 dBm
IF OUT: 470 MHz; -7.55 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	10	12	23	30	32	36	37	45	59	66
1	-	18	+0	26	18	26	28	38	31	48	56	64
2	42	27	42	36	38	41	36	63	49	57	58	55
3	68	62	47	61	51	50	46	50	54	56	56	70
4	>90	77	72	65	69	70	66	76	69	63	67	72
5	>90	>92	83	83	77	80	86	79	71	81	68	75
6	>90	>92	>92	86	>92	92	85	86	>92	84	92	80
7	>90	>92	>92	>92	>92	>92	>92	89	91	87	92	86
8	>90	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
9	>90	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
10	---	---	>92	>92	>92	>92	>92	>92	>92	>92	>92	>92
RF CAL	0	1	2	3	4	5	6	7	8	9	10	

LO HARMONICS ORDER

Test conditions:

RF IN: 2600 MHz; 10.00 dBm.
LO IN: 2130 MHz; +17.00 dBm
IF OUT: 470 MHz; 2.37 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.