

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						
550.0	580.0	13.27	10.53	10.07	550.0	580.0	5.86	4.99	9.44	550.0	580.0	-0.49	0.44	0.25
650.0	680.0	10.70	9.60	9.04	650.0	680.0	3.43	8.43	14.83	650.0	680.0	0.39	0.19	0.15
750.0	780.0	9.36	8.16	7.64	750.0	780.0	7.61	13.20	13.17	750.0	780.0	0.59	0.65	0.62
850.0	880.0	8.04	7.05	6.56	850.0	880.0	8.22	10.20	11.35	850.0	880.0	1.18	1.19	1.11
950.0	980.0	7.74	6.74	6.21	950.0	980.0	5.92	8.71	10.67	950.0	980.0	1.25	1.37	1.33
1050.0	1080.0	7.40	6.63	6.28	1050.0	1080.0	6.07	9.72	11.73	1050.0	1080.0	1.41	1.32	1.18
1150.0	1180.0	7.17	6.69	6.48	1150.0	1180.0	8.14	10.14	11.49	1150.0	1180.0	1.63	1.27	1.07
1250.0	1280.0	7.26	6.90	6.75	1250.0	1280.0	9.38	11.09	12.24	1250.0	1280.0	1.59	1.19	0.98
1350.0	1380.0	7.55	7.17	7.00	1350.0	1380.0	9.93	10.98	12.30	1350.0	1380.0	1.40	1.02	0.79
1450.0	1480.0	7.76	7.49	7.35	1450.0	1480.0	9.56	9.97	11.30	1450.0	1480.0	1.44	1.02	0.74
1550.0	1580.0	7.81	7.61	7.54	1550.0	1580.0	10.72	11.36	12.04	1550.0	1580.0	1.28	0.86	0.61
1650.0	1680.0	7.50	7.25	7.19	1650.0	1680.0	11.12	11.16	11.23	1650.0	1680.0	1.16	0.91	0.76
1750.0	1780.0	7.62	7.33	7.22	1750.0	1780.0	12.55	12.65	12.40	1750.0	1780.0	0.72	0.57	0.49
1850.0	1880.0	7.49	7.19	7.07	1850.0	1880.0	11.71	12.85	13.53	1850.0	1880.0	0.67	0.44	0.35
1950.0	1980.0	7.78	7.46	7.34	1950.0	1980.0	12.18	13.24	14.10	1950.0	1980.0	0.83	0.62	0.51
2050.0	2080.0	7.65	7.28	7.14	2050.0	2080.0	11.62	12.28	12.94	2050.0	2080.0	0.68	0.54	0.45
2150.0	2180.0	7.68	7.35	7.22	2150.0	2180.0	12.38	13.74	14.81	2150.0	2180.0	0.75	0.57	0.47
2250.0	2280.0	7.90	7.53	7.38	2250.0	2280.0	12.91	13.55	14.54	2250.0	2280.0	0.57	0.43	0.35
2350.0	2380.0	7.71	7.27	7.14	2350.0	2380.0	11.56	13.00	13.84	2350.0	2380.0	0.80	0.64	0.54
2450.0	2480.0	8.34	7.93	7.82	2450.0	2480.0	10.38	12.66	14.36	2450.0	2480.0	0.38	0.22	0.15
2550.0	2580.0	8.67	8.12	7.89	2550.0	2580.0	7.73	7.90	7.79	2550.0	2580.0	0.07	-0.08	-0.11
2650.0	2680.0	8.00	7.48	7.28	2650.0	2680.0	6.67	7.15	7.60	2650.0	2680.0	0.55	0.31	0.22
2750.0	2780.0	7.42	6.87	6.68	2750.0	2780.0	7.51	8.30	9.09	2750.0	2780.0	0.74	0.43	0.33
2850.0	2880.0	7.74	7.16	6.97	2850.0	2880.0	8.53	8.84	9.60	2850.0	2880.0	0.73	0.44	0.30
2950.0	2980.0	7.26	6.64	6.40	2950.0	2980.0	6.90	7.67	8.73	2950.0	2980.0	1.07	0.78	0.61
3050.0	3080.0	6.72	6.18	5.99	3050.0	3080.0	6.79	8.06	9.29	3050.0	3080.0	1.19	0.95	0.75
3150.0	3180.0	6.33	5.86	5.69	3150.0	3180.0	7.12	8.56	9.80	3150.0	3180.0	1.30	0.97	0.81
3250.0	3280.0	6.04	5.63	5.49	3250.0	3280.0	8.21	9.35	10.46	3250.0	3280.0	1.28	0.99	0.83
3350.0	3380.0	5.94	5.60	5.48	3350.0	3380.0	8.89	9.80	10.71	3350.0	3380.0	1.27	0.97	0.86
3450.0	3480.0	5.98	5.70	5.59	3450.0	3480.0	9.53	10.12	11.01	3450.0	3480.0	1.24	0.99	0.92
3550.0	3580.0	6.17	5.94	5.88	3550.0	3580.0	10.91	11.59	11.67	3550.0	3580.0	1.09	0.91	0.94
3650.0	3680.0	6.62	6.47	6.56	3650.0	3680.0	11.84	12.02	9.79	3650.0	3680.0	1.12	0.96	1.09
3730.0	3760.0	7.48	7.36	7.80	3730.0	3760.0	11.45	10.84	10.27	3730.0	3760.0	1.09	0.97	0.99
3830.0	3860.0	8.25	7.77	7.59	3830.0	3860.0	11.35	12.98	10.95	3830.0	3860.0	0.72	0.81	1.28
3910.0	3940.0	7.84	7.37	7.17	3910.0	3940.0	10.97	12.44	12.43	3910.0	3940.0	0.69	0.70	0.99
4010.0	4040.0	7.76	7.35	7.19	4010.0	4040.0	10.17	11.58	12.08	4010.0	4040.0	0.64	0.61	0.78
4090.0	4120.0	7.76	7.39	7.29	4090.0	4120.0	10.08	11.70	12.63	4090.0	4120.0	0.50	0.45	0.54
4190.0	4220.0	8.07	7.69	7.61	4190.0	4220.0	10.62	11.61	13.03	4190.0	4220.0	0.40	0.32	0.35
4270.0	4300.0	8.38	8.04	7.99	4270.0	4300.0	11.52	11.94	13.58	4270.0	4300.0	0.42	0.33	0.34
4370.0	4400.0	8.55	8.19	8.20	4370.0	4400.0	12.75	12.81	13.92	4370.0	4400.0	0.51	0.39	0.35

Frequency Mixer

MBA-EE7756/6

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=900MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=789.9MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1010.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+7			+7			+7
370.0	530.0	10.62	10.1	800.0	7.75	450.1	560.0	10.46
348.8	551.2	10.28	30.1	820.0	7.66	440.1	570.0	9.96
327.6	572.4	9.78	50.1	840.0	7.73	430.1	580.0	9.32
306.5	593.5	9.40	70.1	860.0	7.66	420.1	590.0	9.03
285.3	614.7	9.25	90.1	880.0	7.66	410.1	600.0	8.81
264.1	635.9	8.98	110.1	900.0	7.68	400.1	610.0	8.67
242.9	657.1	8.63	130.1	920.0	7.67	390.1	620.0	8.67
221.8	678.2	7.98	150.1	940.0	7.61	380.1	630.0	8.71
200.6	699.4	7.43	170.1	960.0	7.72	370.1	640.0	8.53
179.4	720.6	7.10	190.1	980.0	7.70	360.1	650.0	8.48
158.2	741.8	6.85	210.1	1000.0	7.86	350.1	660.0	8.36
137.1	762.9	6.64	230.1	1020.0	8.00	340.1	670.0	8.13
115.9	784.1	6.59	250.1	1040.0	7.82	330.1	680.0	7.94
94.7	805.3	6.64	270.1	1060.0	7.85	320.1	690.0	7.87
73.5	826.5	6.59	290.1	1080.0	7.79	310.1	700.0	7.53
52.4	847.6	6.73	310.1	1100.0	7.75	300.1	710.0	7.40
31.2	868.8	6.75	330.1	1120.0	7.83	290.1	720.0	7.26
10.0	890.0	6.99	350.1	1140.0	7.85	280.1	730.0	7.08
39.4	939.4	6.82	390.1	1180.0	7.90	270.1	740.0	6.90
98.2	998.2	6.95	410.1	1200.0	7.86	260.1	750.0	6.79
157.1	1057.1	6.84	450.1	1240.0	7.93	250.1	760.0	6.71
215.9	1115.9	6.94	470.1	1260.0	7.92	240.1	770.0	6.59
274.7	1174.7	7.05	510.1	1300.0	7.88	230.1	780.0	6.54
304.1	1204.1	7.02	530.1	1320.0	7.89	220.1	790.0	6.50
362.9	1262.9	7.07	570.1	1360.0	7.92	210.1	800.0	6.50
392.4	1292.4	7.04	590.1	1380.0	8.03	200.1	810.0	6.50
451.2	1351.2	7.07	630.1	1420.0	8.15	190.1	820.0	6.52
480.6	1380.6	7.20	650.1	1440.0	8.08	180.1	830.0	6.50
539.4	1439.4	7.39	690.1	1480.0	8.11	170.1	840.0	6.51
568.8	1468.8	7.42	710.1	1500.0	8.14	160.1	850.0	6.51
627.6	1527.6	7.40	750.1	1540.0	8.23	140.1	870.0	6.59
657.1	1557.1	7.36	770.1	1560.0	8.24	130.1	880.0	6.58
715.9	1615.9	7.64	810.1	1600.0	8.38	110.1	900.0	6.70
745.3	1645.3	7.56	830.1	1620.0	8.60	100.1	910.0	6.72
804.1	1704.1	8.08	870.1	1660.0	8.94	80.1	930.0	6.86
833.5	1733.5	8.27	890.1	1680.0	9.15	70.1	940.0	6.81
892.4	1792.4	8.71	930.1	1720.0	9.56	50.1	960.0	6.93
921.8	1821.8	9.13	950.1	1740.0	9.66	40.1	970.0	6.83
980.6	1880.6	9.95	990.1	1780.0	10.23	20.1	990.0	6.92
1010.0	1910.0	10.44	1010.1	1800.0	10.60	10.1	1000.0	6.83

REV. X3

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101012

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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
580.0	31.74	33.02	33.39	20.15	19.87	19.98
680.0	28.57	29.37	28.88	19.78	18.86	18.89
780.0	26.90	27.38	26.35	19.05	18.08	17.90
880.0	26.54	25.76	24.62	18.71	17.97	17.57
980.0	26.61	25.30	23.90	18.20	18.14	17.53
1080.0	27.50	25.81	24.37	16.66	17.51	17.82
1180.0	28.70	26.66	25.15	14.59	16.06	17.48
1280.0	29.38	27.45	26.02	13.06	14.86	16.78
1380.0	29.49	28.06	27.19	12.04	13.86	15.83
1480.0	29.03	28.46	28.03	11.40	13.15	14.81
1580.0	28.87	28.84	28.93	10.88	12.48	13.83
1680.0	27.99	28.15	28.65	10.87	12.25	13.25
1780.0	28.85	29.61	30.01	11.16	12.27	12.80
1880.0	29.21	29.60	30.10	11.76	12.24	12.36
1980.0	31.94	32.29	32.53	12.48	12.49	12.17
2080.0	34.03	34.16	33.88	13.26	12.71	12.04
2180.0	39.62	38.07	36.48	13.94	12.71	11.73
2280.0	46.41	43.14	39.30	14.96	13.17	11.83
2380.0	40.72	46.58	42.43	15.62	13.23	11.86
2480.0	32.33	36.86	44.63	15.83	13.51	11.90
2580.0	31.08	35.22	44.21	15.75	13.76	12.23
2680.0	33.22	40.19	51.06	15.35	13.77	12.61
2780.0	35.12	52.61	38.94	14.98	14.04	13.25
2880.0	32.15	40.45	43.11	14.61	14.30	13.66
2980.0	32.58	41.84	38.09	14.25	14.72	14.66
3080.0	36.46	45.73	35.39	13.99	14.86	15.73
3180.0	42.95	36.80	30.60	13.86	15.22	16.65
3280.0	37.50	31.29	27.69	13.85	15.39	17.12
3380.0	31.78	27.70	25.41	14.03	15.60	17.20
3480.0	27.53	25.31	23.39	14.21	15.51	16.47
3580.0	23.99	22.54	21.28	14.04	14.75	15.06
3680.0	20.93	20.00	19.26	13.11	13.15	12.97
3760.0	19.49	19.10	19.15	11.49	11.28	11.05
3860.0	19.23	19.76	20.03	9.90	10.30	10.62
3940.0	21.07	21.00	20.13	10.93	11.84	12.47
4040.0	25.05	24.20	22.96	13.19	14.28	15.27
4120.0	27.52	26.06	24.65	14.90	16.02	17.17
4220.0	29.08	27.73	26.34	17.22	18.36	19.50
4300.0	28.65	27.72	26.31	19.22	20.70	22.12
4400.0	27.37	26.43	25.35	23.20	25.64	28.91

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+4	+7	+10
550.0	580.0	26.09	19.10	15.94
650.0	680.0	19.47	15.96	14.25
750.0	780.0	18.61	16.39	15.10
850.0	880.0	19.46	17.93	17.07
950.0	980.0	20.92	19.92	19.22
1050.0	1080.0	22.25	22.39	22.47
1150.0	1180.0	23.51	24.94	25.78
1250.0	1280.0	24.37	26.21	27.65
1350.0	1380.0	24.61	26.87	28.44
1450.0	1480.0	24.82	26.82	28.33
1550.0	1580.0	26.61	28.34	29.32
1650.0	1680.0	27.98	29.52	30.30
1750.0	1780.0	28.52	29.34	29.94
1850.0	1880.0	27.83	27.83	27.83
1950.0	1980.0	27.14	27.06	26.99
2050.0	2080.0	27.06	26.98	27.04
2150.0	2180.0	26.48	26.40	26.31
2250.0	2280.0	26.43	26.43	26.41
2350.0	2380.0	26.58	26.58	26.66
2450.0	2480.0	25.76	25.94	25.99
2550.0	2580.0	25.95	26.15	26.13
2650.0	2680.0	27.29	27.32	27.26
2750.0	2780.0	27.84	27.61	27.30
2850.0	2880.0	27.87	27.39	26.82
2950.0	2980.0	28.92	27.97	27.05
3050.0	3080.0	29.03	27.81	26.77
3150.0	3180.0	27.99	26.81	25.93
3250.0	3280.0	27.39	26.23	25.38
3350.0	3380.0	25.77	24.98	24.37
3450.0	3480.0	24.02	23.45	23.05
3550.0	3580.0	21.65	21.42	21.15
3650.0	3680.0	18.80	18.72	18.53
3730.0	3760.0	16.64	16.68	16.65
3830.0	3860.0	14.14	14.58	15.07
3910.0	3940.0	14.08	14.35	14.65
4010.0	4040.0	15.39	15.13	15.00
4090.0	4120.0	15.92	15.17	14.66
4190.0	4220.0	15.80	14.41	13.58
4270.0	4300.0	16.17	14.69	13.66
4370.0	4400.0	16.78	15.51	14.52

Frequency Mixer

MBA-EE7756/6

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=1000MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+4	+7	+10		+4	+7	+10		+4	+7	+10
550.0	580.0	6.66	5.68	5.47	580.0	13.49	9.38	6.66	10.0	1.09	1.40	1.66
650.0	680.0	5.20	4.75	4.42	680.0	6.66	4.59	4.14	30.0	1.12	1.40	1.65
750.0	780.0	4.17	3.70	3.42	780.0	3.32	2.71	2.88	50.0	1.22	1.45	1.71
850.0	880.0	3.41	3.05	2.79	880.0	2.27	2.00	2.28	70.0	1.29	1.47	1.71
950.0	980.0	3.27	2.95	2.73	980.0	2.06	1.75	1.97	90.0	1.40	1.56	1.79
1050.0	1080.0	3.17	2.90	2.75	1080.0	2.21	1.75	1.86	110.0	1.50	1.62	1.82
1150.0	1180.0	3.18	2.99	2.88	1180.0	2.35	1.80	1.89	130.0	1.61	1.73	1.93
1250.0	1280.0	3.35	3.18	3.07	1280.0	2.29	1.83	2.01	150.0	1.73	1.80	1.98
1350.0	1380.0	3.53	3.38	3.26	1380.0	2.11	1.82	2.12	170.0	1.83	1.89	2.07
1450.0	1480.0	3.47	3.39	3.37	1480.0	2.00	1.91	2.29	190.0	1.97	1.99	2.15
1550.0	1580.0	3.23	3.14	3.13	1580.0	1.87	1.90	2.36	210.0	2.08	2.08	2.23
1650.0	1680.0	3.21	2.98	2.88	1680.0	1.56	1.77	2.33	230.0	2.22	2.21	2.35
1750.0	1780.0	3.29	3.00	2.80	1780.0	1.30	1.70	2.30	250.0	2.29	2.25	2.37
1850.0	1880.0	3.06	2.78	2.58	1880.0	1.17	1.67	2.27	270.0	2.46	2.39	2.50
1950.0	1980.0	3.17	2.92	2.73	1980.0	1.26	1.67	2.21	290.0	2.54	2.44	2.54
2050.0	2080.0	3.09	2.80	2.57	2080.0	1.44	1.70	2.17	310.0	2.68	2.57	2.67
2150.0	2180.0	3.00	2.77	2.59	2180.0	1.56	1.64	2.01	330.0	2.76	2.61	2.68
2250.0	2280.0	3.08	2.85	2.69	2280.0	1.89	1.74	1.95	350.0	2.86	2.69	2.75
2350.0	2380.0	2.74	2.51	2.37	2380.0	2.07	1.71	1.79	370.0	2.98	2.74	2.77
2450.0	2480.0	2.69	2.47	2.34	2480.0	2.31	1.73	1.65	390.0	3.06	2.79	2.82
2550.0	2580.0	3.47	3.08	2.82	2580.0	2.52	1.76	1.52	410.0	3.15	2.83	2.83
2650.0	2680.0	3.30	2.88	2.65	2680.0	2.63	1.75	1.39	430.0	3.20	2.84	2.82
2750.0	2780.0	2.75	2.34	2.13	2780.0	2.75	1.73	1.24	450.0	3.29	2.88	2.82
2850.0	2880.0	2.84	2.49	2.30	2880.0	2.78	1.71	1.15	470.0	3.35	2.89	2.80
2950.0	2980.0	2.50	2.18	1.98	2980.0	2.75	1.69	1.22	490.0	3.43	2.93	2.81
3050.0	3080.0	2.07	1.80	1.64	3080.0	2.64	1.69	1.40	510.0	3.47	2.90	2.73
3150.0	3180.0	1.68	1.46	1.34	3180.0	2.54	1.78	1.69	530.0	3.56	2.93	2.73
3250.0	3280.0	1.45	1.26	1.15	3280.0	2.14	1.72	1.87	550.0	3.59	2.90	2.65
3350.0	3380.0	1.36	1.23	1.17	3380.0	1.84	1.76	2.09	590.0	3.69	2.90	2.56
3450.0	3480.0	1.42	1.34	1.33	3480.0	1.64	1.83	2.28	610.0	3.72	2.89	2.51
3550.0	3580.0	1.58	1.54	1.54	3580.0	1.50	1.85	2.34	650.0	3.79	2.86	2.40
3650.0	3680.0	1.73	1.67	1.68	3680.0	1.38	1.77	2.20	670.0	3.81	2.86	2.36
3730.0	3760.0	1.91	1.81	1.83	3760.0	1.25	1.57	1.89	710.0	3.81	2.82	2.27
3830.0	3860.0	2.18	2.13	2.14	3860.0	1.20	1.38	1.66	730.0	3.79	2.79	2.23
3910.0	3940.0	2.30	2.21	2.14	3940.0	1.55	1.66	1.94	770.0	3.76	2.77	2.22
4010.0	4040.0	2.82	2.63	2.50	4040.0	1.90	1.89	2.13	790.0	3.73	2.77	2.24
4090.0	4120.0	3.14	2.88	2.73	4120.0	2.18	2.01	2.16	830.0	3.60	2.76	2.33
4190.0	4220.0	3.52	3.14	2.95	4220.0	2.44	2.06	2.04	850.0	3.52	2.78	2.43
4270.0	4300.0	3.94	3.52	3.27	4300.0	2.60	2.01	1.83	890.0	3.43	2.89	2.71
4370.0	4400.0	4.07	3.60	3.34	4400.0	2.69	1.88	1.52	910.0	3.42	3.02	2.95

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+10	40	+1	36	27	40	17	42	37	48
1	-	12	+0	21	38	41	51	28	37	41	40	55
2	90	49	55	55	51	57	48	>69	58	54	68	62
3	>90	>69	>69	58	52	60	>69	>69	62	64	66	>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	>90	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69	>69
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 900 MHz; -14.00 dBm.
LO IN: 930 MHz; +7.00 dBm
IF OUT: 30 MHz; -21.1 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+0	49	10	45	39	48	28	55	44	51
1	-	11	+0	24	39	46	41	33	46	44	45	51
2	70	39	45	42	41	53	41	67	59	54	48	59
3	>90	52	53	43	37	42	58	58	50	50	52	60
4	>90	71	60	69	55	62	59	62	65	73	64	61
5	>90	51	70	73	68	55	48	61	>79	79	58	60
6	>90	>79	64	>79	75	72	64	66	74	>79	71	79
7	>90	>79	>79	76	>79	>79	>79	68	64	70	>79	>79
8	>90	>79	>79	>79	>79	>79	>79	>79	>79	74	>79	>79
9	>90	>79	>79	>79	>79	77	>79	>79	>79	74	74	>79
10	>90	>79	>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: 900 MHz; -4.00 dBm.
LO IN: 930 MHz; +7.00 dBm
IF OUT: 30 MHz; -11.08 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.

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