

Frequency Mixer

ADE-ED7192

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=+5dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
		+7	+10	+13			+7	+10	+13			+7	+10	+13
140.0	170.0	20.72	11.78	7.93	140.0	170.0	-2.30	5.32	14.69	140.0	170.0	-7.87	-1.58	0.28
240.0	270.0	7.01	6.12	5.82	240.0	270.0	14.60	17.41	18.65	240.0	270.0	1.78	1.26	0.91
340.0	370.0	5.92	5.60	5.36	340.0	370.0	12.58	13.47	14.98	340.0	370.0	1.80	1.34	1.11
440.0	470.0	5.66	5.32	5.11	440.0	470.0	13.88	15.31	18.47	440.0	470.0	1.87	1.57	1.36
540.0	570.0	5.45	5.23	5.05	540.0	570.0	12.26	14.25	18.01	540.0	570.0	2.14	1.86	1.61
640.0	670.0	5.22	4.99	4.86	640.0	670.0	14.51	17.27	22.24	640.0	670.0	2.82	2.40	2.10
740.0	770.0	5.74	5.13	4.81	740.0	770.0	8.24	12.96	18.66	740.0	770.0	3.07	2.84	2.49
840.0	870.0	7.40	6.22	5.41	840.0	870.0	5.44	8.91	13.20	840.0	870.0	2.05	2.36	2.39
940.0	970.0	7.18	6.16	5.54	940.0	970.0	6.51	9.35	11.80	940.0	970.0	2.08	2.21	2.16
1040.0	1070.0	6.60	6.06	5.71	1040.0	1070.0	9.03	10.70	12.19	1040.0	1070.0	2.14	1.97	1.83
1140.0	1170.0	6.63	6.33	6.14	1140.0	1170.0	10.98	12.11	12.68	1140.0	1170.0	1.70	1.49	1.32
1240.0	1270.0	6.45	6.29	6.21	1240.0	1270.0	12.31	12.55	13.82	1240.0	1270.0	1.23	1.02	0.89
1340.0	1370.0	6.21	6.06	6.01	1340.0	1370.0	13.97	13.87	14.98	1340.0	1370.0	0.95	0.72	0.62
1440.0	1470.0	6.61	6.40	6.29	1440.0	1470.0	14.45	13.53	14.57	1440.0	1470.0	0.99	0.68	0.53
1540.0	1570.0	6.66	6.32	6.18	1540.0	1570.0	16.13	18.65	20.76	1540.0	1570.0	1.31	1.00	0.82
1640.0	1670.0	6.89	6.59	6.42	1640.0	1670.0	18.58	19.21	20.96	1640.0	1670.0	1.36	1.15	1.00
1740.0	1770.0	7.42	7.02	6.79	1740.0	1770.0	17.79	20.30	21.99	1740.0	1770.0	1.28	1.07	0.91
1840.0	1870.0	7.93	7.38	7.08	1840.0	1870.0	15.69	16.29	17.66	1840.0	1870.0	1.03	0.88	0.74
1940.0	1970.0	8.30	7.62	7.26	1940.0	1970.0	15.65	16.33	16.22	1940.0	1970.0	0.87	0.78	0.65
2040.0	2070.0	8.70	7.87	7.47	2040.0	2070.0	13.36	15.13	16.36	2040.0	2070.0	0.65	0.64	0.53
2160.0	2190.0	9.17	8.16	7.64	2160.0	2190.0	12.18	12.95	14.93	2160.0	2190.0	0.55	0.47	0.45
2260.0	2290.0	9.41	8.31	7.70	2260.0	2290.0	11.50	12.47	14.22	2260.0	2290.0	0.70	0.48	0.44
2380.0	2410.0	9.77	8.49	7.87	2380.0	2410.0	10.92	12.71	13.64	2380.0	2410.0	0.63	0.38	0.32
2480.0	2510.0	9.90	8.43	7.85	2480.0	2510.0	11.61	13.40	13.56	2480.0	2510.0	0.60	0.46	0.36
2600.0	2630.0	10.11	8.20	7.70	2600.0	2630.0	10.76	13.84	14.18	2600.0	2630.0	0.27	0.54	0.40
2700.0	2730.0	10.17	8.15	7.55	2700.0	2730.0	9.31	12.61	14.51	2700.0	2730.0	0.12	0.53	0.47
2820.0	2850.0	9.68	7.64	7.04	2820.0	2850.0	9.41	11.45	15.50	2820.0	2850.0	0.42	0.76	0.65
2920.0	2950.0	8.79	7.14	6.68	2920.0	2950.0	14.32	12.40	14.92	2920.0	2950.0	0.89	0.92	0.73
3040.0	3070.0	8.05	6.83	6.44	3040.0	3070.0	12.36	12.38	14.58	3040.0	3070.0	1.10	0.85	0.75
3140.0	3170.0	7.52	6.61	6.30	3140.0	3170.0	12.10	12.66	14.43	3140.0	3170.0	1.29	1.00	0.90
3260.0	3290.0	7.13	6.50	6.24	3260.0	3290.0	13.85	13.23	13.74	3260.0	3290.0	1.49	1.11	1.02
3360.0	3390.0	6.93	6.40	6.17	3360.0	3390.0	14.04	13.61	13.28	3360.0	3390.0	1.81	1.31	1.17
3480.0	3510.0	6.79	6.31	6.09	3480.0	3510.0	12.76	13.20	12.91	3480.0	3510.0	2.16	1.55	1.32
3580.0	3610.0	6.95	6.34	6.05	3580.0	3610.0	12.20	13.09	13.43	3580.0	3610.0	2.57	1.79	1.41
3700.0	3730.0	7.23	6.55	6.12	3700.0	3730.0	11.15	13.14	14.25	3700.0	3730.0	3.14	2.03	1.46
3800.0	3830.0	7.76	6.94	6.38	3800.0	3830.0	8.86	12.76	14.80	3800.0	3830.0	3.89	2.34	1.53
3920.0	3950.0	8.81	7.57	6.83	3920.0	3950.0	6.25	10.40	14.23	3920.0	3950.0	4.58	3.27	2.00
4020.0	4050.0	10.03	8.18	7.29	4020.0	4050.0	5.70	8.97	12.98	4020.0	4050.0	4.58	3.76	2.29
4140.0	4170.0	12.07	9.14	7.97	4140.0	4170.0	8.55	7.80	12.33	4140.0	4170.0	3.82	4.24	2.67
4240.0	4270.0	14.56	10.26	8.66	4240.0	4270.0	7.75	7.95	12.34	4240.0	4270.0	2.27	4.11	3.00

Frequency Mixer

ADE-ED7192

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2662.5MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1314.9MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=4010.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+10			+10			+10
1382.5	1280.0	10.73	10.1	1325.0	6.66	1610.1	2400.0	10.65
1317.1	1345.4	8.67	50.1	1365.0	6.12	1570.1	2440.0	10.16
1251.8	1410.7	8.05	90.1	1405.0	6.12	1530.1	2480.0	9.64
1186.4	1476.1	8.40	130.1	1445.0	6.10	1490.1	2520.0	9.30
1121.1	1541.4	8.76	170.1	1485.0	6.03	1450.1	2560.0	8.94
1055.7	1606.8	8.42	210.1	1525.0	5.84	1410.1	2600.0	8.69
990.4	1672.1	8.48	250.1	1565.0	5.62	1370.1	2640.0	8.45
925.0	1737.5	8.36	290.1	1605.0	5.59	1330.1	2680.0	8.22
859.6	1802.9	8.47	330.1	1645.0	5.55	1290.1	2720.0	7.99
794.3	1868.2	8.38	370.1	1685.0	5.55	1250.1	2760.0	7.80
728.9	1933.6	8.38	410.1	1725.0	5.59	1210.1	2800.0	7.62
663.6	1998.9	8.31	450.1	1765.0	5.64	1170.1	2840.0	7.48
598.2	2064.3	8.26	490.1	1805.0	5.74	1130.1	2880.0	7.34
532.9	2129.6	8.22	530.1	1845.0	5.79	1090.1	2920.0	7.20
467.5	2195.0	8.27	570.1	1885.0	5.90	1050.1	2960.0	7.12
402.1	2260.4	8.18	610.1	1925.0	6.00	1010.1	3000.0	7.06
336.8	2325.7	8.18	650.1	1965.0	6.12	970.1	3040.0	6.99
271.4	2391.1	8.21	690.1	2005.0	6.26	930.1	3080.0	6.89
206.1	2456.4	8.13	730.1	2045.0	6.37	890.1	3120.0	6.81
140.7	2521.8	8.09	770.1	2085.0	6.63	850.1	3160.0	6.70
53.6	2608.9	8.20	810.1	2125.0	6.84	810.1	3200.0	6.65
10.0	2672.5	8.94	850.1	2165.0	7.03	770.1	3240.0	6.61
82.9	2745.4	8.17	890.1	2205.0	7.29	730.1	3280.0	6.58
137.5	2800.0	8.04	930.1	2245.0	7.41	690.1	3320.0	6.57
210.4	2872.9	7.97	970.1	2285.0	7.73	650.1	3360.0	6.53
265.0	2927.5	7.78	1010.1	2325.0	7.89	610.1	3400.0	6.51
337.9	3000.4	7.85	1050.1	2365.0	8.16	570.1	3440.0	6.52
392.5	3055.0	7.96	1090.1	2405.0	8.38	530.1	3480.0	6.56
465.4	3127.9	8.08	1130.1	2445.0	8.49	490.1	3520.0	6.61
520.0	3182.5	8.25	1170.1	2485.0	8.83	450.1	3560.0	6.71
592.9	3255.4	8.38	1210.1	2525.0	8.95	410.1	3600.0	6.81
647.5	3310.0	8.44	1250.1	2565.0	9.26	370.1	3640.0	6.95
720.4	3382.9	8.63	1290.1	2605.0	9.52	330.1	3680.0	7.24
775.0	3437.5	8.63	1330.1	2645.0	9.64	290.1	3720.0	7.47
847.9	3510.4	8.59	1370.1	2685.0	9.97	250.1	3760.0	7.81
902.5	3565.0	8.63	1390.1	2705.0	9.90	210.1	3800.0	7.77
975.4	3637.9	8.62	1430.1	2745.0	9.99	170.1	3840.0	7.67
1030.0	3692.5	8.83	1450.1	2765.0	10.14	110.1	3900.0	7.65
1102.9	3765.4	9.68	1490.1	2805.0	10.30	70.1	3940.0	7.80
1157.5	3820.0	10.22	1510.1	2825.0	10.32	10.1	4000.0	8.40

Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+7	+10	+13	+7	+10	+13
170.0	61.46	60.87	59.34	41.08	40.95	40.55
270.0	47.28	49.33	51.13	34.66	35.63	35.94
370.0	43.07	45.79	48.30	31.97	32.05	32.27
470.0	41.10	43.23	45.18	30.36	31.10	31.29
570.0	39.82	42.88	45.93	26.83	27.27	27.67
670.0	36.82	38.98	41.20	27.41	28.46	29.16
770.0	37.02	39.39	41.11	25.65	27.05	28.35
870.0	36.83	38.83	40.14	24.96	26.12	27.42
970.0	37.19	38.55	39.42	26.95	26.82	27.11
1070.0	34.70	35.78	36.49	21.75	21.90	22.02
1170.0	32.50	33.34	33.89	19.14	19.03	18.65
1270.0	33.06	33.05	33.18	17.46	16.52	15.92
1370.0	31.87	32.05	32.35	15.62	14.87	14.21
1470.0	31.10	32.18	33.27	14.69	13.93	13.20
1570.0	30.69	32.42	34.19	14.22	13.70	13.10
1670.0	31.08	33.16	35.00	12.94	13.08	12.82
1770.0	30.59	32.52	34.22	12.10	12.50	12.58
1870.0	29.58	31.55	33.30	11.75	12.23	12.38
1970.0	28.48	30.63	32.59	11.58	12.17	12.41
2070.0	28.17	30.45	32.75	11.36	11.97	12.32
2190.0	27.76	30.07	32.62	11.10	11.67	12.19
2290.0	27.82	30.29	32.97	10.72	11.44	11.85
2410.0	27.69	30.15	32.88	10.13	10.88	11.51
2510.0	27.59	29.91	32.43	9.67	10.37	10.99
2630.0	27.75	29.79	31.52	9.25	9.84	10.50
2730.0	27.96	29.87	30.58	8.91	9.55	10.06
2850.0	29.68	30.63	29.55	9.35	9.56	9.69
2950.0	34.98	33.44	29.53	10.65	10.30	10.08
3070.0	42.48	33.00	28.50	11.14	10.88	11.02
3170.0	36.24	31.41	27.72	10.94	11.49	12.03
3290.0	31.84	29.20	27.37	11.22	12.19	13.03
3390.0	30.16	28.44	27.38	11.88	12.65	13.31
3510.0	28.66	27.91	27.33	12.32	12.87	13.21
3610.0	28.41	27.71	27.06	12.32	12.68	12.75
3730.0	27.64	27.84	27.12	12.37	12.47	12.50
3830.0	26.49	27.73	27.56	13.18	12.71	12.53
3950.0	24.61	26.64	27.58	14.22	13.65	13.06
4050.0	23.77	26.09	27.46	14.97	14.49	13.85
4170.0	23.60	26.03	27.93	15.79	15.44	14.83
4270.0	24.01	26.13	28.29	16.48	16.24	15.71

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+7	+10	+13
140.0	170.0	36.89	33.45	30.61
240.0	270.0	28.34	27.47	27.42
340.0	370.0	25.71	25.32	25.17
440.0	470.0	24.80	24.79	24.73
540.0	570.0	25.00	24.60	24.57
640.0	670.0	25.02	24.43	24.06
740.0	770.0	25.35	25.11	24.76
840.0	870.0	25.61	25.87	26.26
940.0	970.0	26.45	26.14	26.20
1040.0	1070.0	27.61	27.00	26.84
1140.0	1170.0	29.35	28.76	28.46
1240.0	1270.0	27.96	27.15	26.72
1340.0	1370.0	25.06	24.70	24.61
1440.0	1470.0	24.82	24.91	25.15
1540.0	1570.0	26.77	27.09	27.49
1640.0	1670.0	30.01	30.39	30.75
1740.0	1770.0	31.04	31.22	31.16
1840.0	1870.0	30.47	31.13	31.34
1940.0	1970.0	31.58	32.61	33.16
2040.0	2070.0	33.59	34.58	35.22
2160.0	2190.0	31.33	31.81	32.22
2260.0	2290.0	27.83	28.20	28.46
2380.0	2410.0	24.62	24.72	24.84
2480.0	2510.0	22.58	22.43	22.45
2600.0	2630.0	20.34	20.05	19.90
2700.0	2730.0	18.91	18.46	18.21
2820.0	2850.0	17.42	17.41	17.54
2920.0	2950.0	17.68	17.99	18.15
3040.0	3070.0	19.60	19.62	19.35
3140.0	3170.0	21.32	20.95	20.51
3260.0	3290.0	22.40	21.68	21.23
3360.0	3390.0	22.86	22.12	21.64
3480.0	3510.0	22.79	22.24	21.73
3580.0	3610.0	22.75	22.20	21.71
3700.0	3730.0	21.08	21.52	21.23
3800.0	3830.0	19.26	19.73	20.29
3920.0	3950.0	17.50	18.19	18.82
4020.0	4050.0	16.54	17.20	17.76
4140.0	4170.0	15.52	16.55	17.22
4240.0	4270.0	15.11	16.35	17.10

Frequency Mixer

ADE-ED7192

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)			LO (MHz)	LO VSWR (:1)			IF (OUT) (MHz)	IF VSWR @LO=4000MHz (:1)		
		@LO (dBm)				@LO (dBm)				@LO (dBm)		
		+7	+10	+13		+7	+10	+13		+7	+10	+13
140.0	170.0	20.22	9.79	5.97	170.0	44.55	32.79	15.81	10.1	3.03	2.36	1.95
240.0	270.0	3.17	2.71	2.59	270.0	8.77	6.19	6.39	50.1	3.02	2.34	1.94
340.0	370.0	1.91	1.83	1.78	370.0	3.60	4.10	5.12	90.1	3.03	2.35	1.95
440.0	470.0	1.47	1.40	1.36	470.0	2.53	3.37	4.47	130.1	2.96	2.29	1.91
540.0	570.0	1.31	1.23	1.19	570.0	2.10	2.95	4.00	170.1	2.95	2.28	1.92
640.0	670.0	1.36	1.28	1.22	670.0	1.89	2.63	3.54	210.1	2.89	2.23	1.90
740.0	770.0	1.98	1.78	1.65	770.0	1.91	2.46	3.19	250.1	2.82	2.18	1.86
840.0	870.0	3.30	2.90	2.61	870.0	1.73	2.14	2.76	290.1	2.79	2.19	1.88
940.0	970.0	3.70	3.29	3.00	970.0	1.41	1.69	2.24	330.1	2.77	2.18	1.87
1040.0	1070.0	3.66	3.45	3.27	1070.0	1.31	1.46	1.94	370.1	2.79	2.22	1.86
1140.0	1170.0	3.66	3.56	3.47	1170.0	1.26	1.34	1.80	410.1	2.89	2.32	1.89
1240.0	1270.0	3.40	3.37	3.35	1270.0	1.16	1.35	1.82	450.1	2.94	2.34	1.85
1340.0	1370.0	3.02	2.92	2.89	1370.0	1.05	1.47	1.97	490.1	3.11	2.48	1.91
1440.0	1470.0	3.05	2.84	2.72	1470.0	1.21	1.68	2.21	550.1	3.10	2.42	1.83
1540.0	1570.0	3.25	2.99	2.80	1570.0	1.36	1.88	2.44	590.1	3.19	2.48	1.86
1640.0	1670.0	3.65	3.45	3.29	1670.0	1.49	2.03	2.65	650.1	3.29	2.51	1.80
1740.0	1770.0	4.33	4.09	3.93	1770.0	1.78	2.25	2.86	690.1	3.26	2.52	1.80
1840.0	1870.0	4.77	4.47	4.27	1870.0	2.15	2.54	3.09	750.1	2.95	2.26	1.66
1940.0	1970.0	4.95	4.61	4.38	1970.0	2.57	2.83	3.30	790.1	2.90	2.24	1.66
2040.0	2070.0	5.14	4.75	4.52	2070.0	3.04	3.13	3.49	850.1	2.89	2.22	1.60
2160.0	2190.0	5.22	4.73	4.42	2190.0	3.72	3.44	3.59	890.1	2.79	2.14	1.57
2260.0	2290.0	5.16	4.64	4.29	2290.0	4.42	3.70	3.64	950.0	2.75	2.07	1.48
2380.0	2410.0	5.06	4.50	4.11	2410.0	5.30	4.02	3.68	990.0	2.67	2.00	1.43
2480.0	2510.0	4.95	4.29	3.89	2510.0	5.77	4.16	3.56	1050.0	2.56	1.93	1.39
2600.0	2630.0	4.89	4.00	3.58	2630.0	5.89	4.16	3.30	1090.0	2.50	1.87	1.34
2700.0	2730.0	4.68	3.79	3.32	2730.0	5.85	4.05	3.01	1150.0	2.55	1.93	1.38
2820.0	2850.0	4.19	3.42	2.99	2850.0	5.85	3.94	2.80	1190.0	2.47	1.88	1.35
2920.0	2950.0	3.72	3.09	2.76	2950.0	5.66	3.73	2.60	1250.0	2.35	1.82	1.40
3040.0	3070.0	3.37	2.82	2.52	3070.0	5.10	3.38	2.52	1290.0	2.32	1.85	1.47
3140.0	3170.0	3.03	2.56	2.31	3170.0	4.28	3.12	2.68	1350.0	2.29	1.88	1.58
3260.0	3290.0	2.52	2.19	2.01	3290.0	3.33	3.05	3.18	1390.0	2.25	1.91	1.66
3360.0	3390.0	2.20	1.95	1.79	3390.0	2.96	3.22	3.66	1450.0	2.29	2.08	1.93
3480.0	3510.0	1.86	1.67	1.53	3510.0	3.06	3.70	4.37	1490.0	2.29	2.14	2.07
3580.0	3610.0	1.64	1.45	1.32	3610.0	3.41	4.09	4.83	1550.0	2.11	2.09	2.25
3700.0	3730.0	1.40	1.22	1.17	3730.0	4.14	4.69	5.30	1590.0	2.15	2.21	2.46
3800.0	3830.0	1.19	1.07	1.21	3830.0	4.93	5.34	5.77	1650.0	2.29	2.40	2.71
3920.0	3950.0	1.11	1.18	1.35	3950.0	6.03	6.11	6.30	1690.0	2.36	2.51	2.90
4020.0	4050.0	1.38	1.44	1.59	4050.0	7.11	6.86	6.83	1750.0	2.68	2.87	3.33
4140.0	4170.0	1.90	1.82	1.95	4170.0	8.23	7.70	7.47	1790.0	2.92	3.10	3.57
4240.0	4270.0	2.55	2.28	2.32	4270.0	8.72	8.12	7.76	1850.0	3.17	3.32	3.79

Harmonics Tables

RF HARMONICS ORDER	(-dBm)		(-dBc)									
	0	1	2	3	4	5	6	7	8	9	10	11
0	-	-	19	18	8	32	29	44	37	51	---	---
1	-	11	+0	27	48	34	30	45	44	59	49	---
2	83	50	50	41	65	71	54	51	>72	>72	65	66
3	>90	61	64	69	54	66	63	65	58	66	68	70
4	>90	>72	>72	>72	>72	>72	>72	>72	>72	>72	>72	>72
5	>90	>72	>72	>72	>72	>72	>72	>72	>72	>72	>72	>72
6	>90	>72	>72	>72	>72	>72	>72	>72	>72	>72	>72	>72
7	>90	>72	>72	>72	>72	>72	>72	>72	>72	>72	>72	>72
8	>90	>72	>72	>72	>72	>72	>72	>72	>72	>72	>72	>72
9	>90	>72	>72	>72	>72	>72	>72	>72	>72	>72	>72	>72
10	---	---	>72	>72	>72	>72	>72	>72	>72	>72	>72	>72
RF CAL		0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 2662.5 MHz; -10.00 dBm.
 LO IN: 2692.5 MHz; +10.00 dBm
 IF OUT: 30 MHz; -18.45 dBm

RF HARMONICS ORDER	(-dBm)		(-dBc)									
	0	1	2	3	4	5	6	7	8	9	10	11
0	-	-	9	29	19	54	39	60	50	63	---	---
1	-	11	+0	30	39	40	41	62	59	62	65	---
2	63	41	41	34	58	52	49	46	60	>82	73	67
3	>90	47	44	55	39	46	51	65	50	65	73	73
4	>90	76	66	>82	59	55	65	74	60	64	76	>82
5	>90	71	67	66	64	75	49	63	65	69	63	73
6	>90	>82	>82	73	78	77	77	72	70	78	72	>82
7	>90	>82	82	>82	78	77	75	>82	64	72	77	>82
8	90	>82	>82	>82	>82	>82	>82	>82	>82	74	76	>82
9	>90	>82	>82	>82	>82	>82	>82	>82	>82	>82	79	>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

LO HARMONICS ORDER

Test conditions: RF IN: 2662.5 MHz; 0.00 dBm.
 LO IN: 2692.5 MHz; +10.00 dBm
 IF OUT: 30 MHz; -8.32 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.

REV. X3

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Page 5 of 5



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