

Frequency Mixer

ADE-18

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
800.1	830.1	14.12	10.19	8.57	800.1	830.1	4.37	12.19	14.54	800.1	830.1	-1.48	-0.03	0.17
880.6	910.6	12.12	9.20	8.21	880.6	910.6	5.69	9.05	10.15	880.6	910.6	-0.65	0.19	0.19
961.2	991.2	10.98	8.50	7.82	961.2	991.2	6.97	10.47	9.41	961.2	991.2	-0.20	0.46	0.33
1041.7	1071.7	10.04	7.89	7.26	1041.7	1071.7	9.70	12.11	12.01	1041.7	1071.7	0.16	0.63	0.51
1122.2	1152.2	8.94	7.36	6.86	1122.2	1152.2	18.44	12.05	11.17	1122.2	1152.2	0.57	0.64	0.50
1202.8	1232.8	8.14	6.99	6.51	1202.8	1232.8	10.45	10.98	9.75	1202.8	1232.8	0.69	0.60	0.47
1283.3	1313.3	7.71	6.80	6.33	1283.3	1313.3	7.84	8.81	9.21	1283.3	1313.3	0.82	0.66	0.52
1363.9	1393.9	7.36	6.63	6.23	1363.9	1393.9	6.72	7.35	8.10	1363.9	1393.9	1.10	0.85	0.65
1444.4	1474.4	6.86	6.30	6.01	1444.4	1474.4	6.88	7.00	7.63	1444.4	1474.4	1.38	1.05	0.80
1524.9	1554.9	6.29	5.78	5.51	1524.9	1554.9	8.19	9.46	10.71	1524.9	1554.9	1.59	1.24	0.96
1605.5	1635.5	6.05	5.51	5.29	1605.5	1635.5	8.98	9.89	11.01	1605.5	1635.5	1.74	1.38	1.08
1686.0	1716.0	5.90	5.46	5.24	1686.0	1716.0	9.11	9.44	9.98	1686.0	1716.0	1.90	1.55	1.27
1766.5	1796.5	5.79	5.41	5.21	1766.5	1796.5	8.68	8.92	10.04	1766.5	1796.5	1.95	1.61	1.36
1847.1	1877.1	5.65	5.34	5.21	1847.1	1877.1	7.35	7.86	8.61	1847.1	1877.1	1.96	1.64	1.41
1927.6	1957.6	5.58	5.31	5.18	1927.6	1957.6	6.91	6.49	7.20	1927.6	1957.6	1.86	1.55	1.34
2008.2	2038.2	5.57	5.24	5.04	2008.2	2038.2	8.54	6.57	6.76	2008.2	2038.2	1.66	1.37	1.20
2088.7	2118.7	5.60	5.23	4.99	2088.7	2118.7	8.32	6.09	5.62	2088.7	2118.7	1.39	1.18	1.06
2169.2	2199.2	5.61	5.22	4.94	2169.2	2199.2	8.87	7.26	6.44	2169.2	2199.2	1.24	1.08	0.96
2249.8	2279.8	5.68	5.29	5.05	2249.8	2279.8	8.72	8.02	7.38	2249.8	2279.8	1.13	0.97	0.85
2330.3	2360.3	5.79	5.35	5.15	2330.3	2360.3	8.98	8.45	7.98	2330.3	2360.3	1.15	0.98	0.83
2410.8	2440.8	5.83	5.45	5.20	2410.8	2440.8	10.66	10.62	11.31	2410.8	2440.8	1.13	0.92	0.75
2491.4	2521.4	5.78	5.41	5.19	2491.4	2521.4	10.96	10.21	11.53	2491.4	2521.4	1.11	0.82	0.59
2571.9	2601.9	5.74	5.43	5.33	2571.9	2601.9	8.67	10.87	13.34	2571.9	2601.9	1.01	0.63	0.41
2652.4	2682.4	5.85	5.56	5.46	2652.4	2682.4	9.12	12.11	15.72	2652.4	2682.4	0.96	0.56	0.36
2733.0	2763.0	6.05	5.78	5.61	2733.0	2763.0	10.67	12.24	15.71	2733.0	2763.0	0.83	0.50	0.34
2813.5	2843.5	6.41	6.09	5.89	2813.5	2843.5	12.37	13.12	14.51	2813.5	2843.5	0.86	0.58	0.44
2894.1	2924.1	6.95	6.53	6.27	2894.1	2924.1	16.51	14.73	15.75	2894.1	2924.1	0.76	0.58	0.48
2954.5	2984.5	7.55	6.99	6.65	2954.5	2984.5	17.22	21.82	18.16	2954.5	2984.5	0.68	0.56	0.50
3035.0	3065.0	8.09	7.53	7.19	3035.0	3065.0	12.32	15.73	18.15	3035.0	3065.0	0.52	0.48	0.48
3095.4	3125.4	8.35	7.90	7.48	3095.4	3125.4	10.86	12.35	19.49	3095.4	3125.4	0.45	0.43	0.43
3175.9	3205.9	8.63	8.21	7.91	3175.9	3205.9	11.03	10.98	12.55	3175.9	3205.9	0.42	0.40	0.41
3236.3	3266.3	8.87	8.47	8.18	3236.3	3266.3	14.24	11.58	11.82	3236.3	3266.3	0.39	0.35	0.38
3316.9	3346.9	9.10	8.74	8.48	3316.9	3346.9	14.80	15.35	13.27	3316.9	3346.9	0.41	0.36	0.39
3377.3	3407.3	9.20	8.81	8.61	3377.3	3407.3	15.27	15.36	15.43	3377.3	3407.3	0.37	0.33	0.34
3457.8	3487.8	9.41	9.03	8.74	3457.8	3487.8	14.49	16.15	16.71	3457.8	3487.8	0.40	0.32	0.28
3518.2	3548.2	9.61	9.18	8.94	3518.2	3548.2	14.88	15.78	18.05	3518.2	3548.2	0.40	0.31	0.26
3598.8	3628.8	9.83	9.42	9.19	3598.8	3628.8	13.21	20.38	16.69	3598.8	3628.8	0.36	0.25	0.19
3659.2	3689.2	10.00	9.61	9.40	3659.2	3689.2	14.54	15.75	19.75	3659.2	3689.2	0.35	0.22	0.17
3739.7	3769.7	10.28	9.84	9.65	3739.7	3769.7	15.49	17.24	20.16	3739.7	3769.7	0.34	0.20	0.15
3800.1	3830.1	10.46	9.98	9.75	3800.1	3830.1	14.30	18.76	19.27	3800.1	3830.1	0.40	0.22	0.15

REV. X2
ADE-18
100817
Page 1 of 5



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Frequency Mixer

ADE-18

Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2100.1001MHz z (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1700.1MHz (dB)	IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=2500.1MHz (dB)
		@LO (dBm)			@LO (dBm)			@LO (dBm)
		+7			+7			+7
400.0	1700.1	6.61	10.0	1710.1	5.48	600.0	1900.1	7.02
379.5	1720.6	6.55	24.8	1724.9	5.36	585.3	1914.9	6.94
358.9	1741.2	6.40	39.5	1739.6	5.43	570.5	1929.6	6.85
338.4	1761.7	6.31	54.3	1754.4	5.52	555.8	1944.4	6.75
317.9	1782.2	6.21	69.0	1769.1	5.59	541.0	1959.1	6.66
297.4	1802.7	6.10	83.8	1783.9	5.65	526.3	1973.9	6.58
276.8	1823.3	6.04	98.5	1798.6	5.73	511.5	1988.6	6.51
256.3	1843.8	5.93	113.3	1813.4	5.78	496.8	2003.4	6.45
235.8	1864.3	5.81	128.0	1828.1	5.83	482.0	2018.1	6.41
215.3	1884.8	5.74	142.8	1842.9	5.93	467.3	2032.9	6.41
194.7	1905.4	5.66	157.5	1857.6	6.01	452.5	2047.6	6.37
174.2	1925.9	5.59	172.3	1872.4	6.07	437.8	2062.3	6.31
153.7	1946.4	5.52	187.0	1887.1	6.15	423.0	2077.1	6.26
133.2	1966.9	5.44	201.8	1901.9	6.19	408.3	2091.9	6.23
112.6	1987.5	5.38	216.5	1916.6	6.25	393.5	2106.6	6.22
92.1	2008.0	5.32	231.3	1931.4	6.31	378.8	2121.4	6.21
71.6	2028.5	5.27	246.0	1946.1	6.38	364.0	2136.1	6.17
51.1	2049.0	5.21	260.8	1960.9	6.45	349.3	2150.9	6.13
30.5	2069.6	5.19	275.5	1975.6	6.52	334.5	2165.6	6.13
10.0	2090.1	5.30	290.3	1990.4	6.54	319.8	2180.3	6.10
10.0	2110.1	5.32	305.0	2005.1	6.57	305.0	2195.1	6.07
29.5	2129.6	5.23	319.8	2019.9	6.62	290.3	2209.9	6.06
49.0	2149.1	5.27	334.5	2034.6	6.66	275.5	2224.6	6.06
68.5	2168.6	5.36	349.3	2049.4	6.67	260.8	2239.4	6.05
88.0	2188.1	5.41	364.0	2064.1	6.73	246.0	2254.1	6.04
107.5	2207.6	5.47	378.8	2078.9	6.77	231.3	2268.8	6.02
127.0	2227.1	5.52	393.5	2093.6	6.77	216.5	2283.6	5.99
146.5	2246.6	5.57	408.3	2108.3	6.76	201.8	2298.4	5.99
166.0	2266.1	5.63	423.0	2123.1	6.78	187.0	2313.1	5.95
185.5	2285.6	5.63	437.8	2137.9	6.83	172.3	2327.9	5.95
205.0	2305.1	5.64	452.5	2152.6	6.86	157.5	2342.6	5.94
224.5	2324.6	5.65	467.3	2167.4	6.89	142.8	2357.3	5.93
244.0	2344.1	5.70	482.0	2182.1	6.87	128.0	2372.1	5.88
263.5	2363.6	5.73	496.7	2196.8	6.89	113.3	2386.9	5.84
283.0	2383.1	5.74	511.5	2211.6	6.93	98.5	2401.6	5.80
302.5	2402.6	5.72	526.3	2226.4	6.97	83.8	2416.3	5.76
322.0	2422.1	5.76	541.0	2241.1	7.02	69.0	2431.1	5.72
341.5	2441.6	5.80	555.8	2255.9	7.08	54.3	2445.9	5.66
380.5	2480.6	5.91	585.2	2285.3	7.19	24.8	2475.4	5.55
400.0	2500.1	5.92	600.0	2300.1	7.24	10.0	2490.1	5.80

REV. X2
ADE-18
100817
Page 2 of 5



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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
800.1	25.52	24.73	24.72	19.93	24.23	27.61
880.6	24.85	24.47	24.50	20.88	24.58	26.36
961.2	24.57	24.45	24.44	21.57	23.45	23.55
1041.7	24.55	24.62	24.58	20.81	21.21	20.61
1122.2	24.73	24.84	24.80	19.55	18.98	18.05
1202.8	25.21	25.32	25.28	18.35	17.19	16.08
1283.3	25.96	26.04	26.02	17.07	15.50	14.46
1363.9	26.97	27.05	27.03	15.89	14.22	13.20
1444.4	28.32	28.53	28.55	15.02	13.37	12.39
1524.9	29.75	30.10	30.15	14.05	12.57	11.68
1605.5	31.75	32.52	32.58	12.94	11.69	10.95
1686.0	33.74	35.61	35.87	12.15	11.09	10.48
1766.5	35.58	38.72	39.25	11.58	10.72	10.20
1847.1	36.67	41.06	41.70	11.14	10.52	10.10
1927.6	35.87	40.62	44.10	10.79	10.43	10.16
2008.2	33.81	37.42	42.57	10.61	10.50	10.39
2088.7	32.32	35.17	39.19	10.55	10.65	10.65
2169.2	31.57	34.28	37.33	10.61	10.96	11.10
2249.8	31.23	33.86	36.32	10.79	11.44	11.77
2330.3	30.84	33.48	35.86	11.08	12.06	12.64
2410.8	30.15	32.53	34.64	11.38	12.70	13.59
2491.4	29.00	31.02	32.71	11.47	13.09	14.28
2571.9	28.15	29.98	31.47	11.33	13.09	14.53
2652.4	28.23	29.89	31.15	11.49	13.41	15.12
2733.0	28.31	29.79	30.83	11.70	13.78	15.73
2813.5	28.48	29.75	30.58	12.10	14.29	16.44
2894.1	27.72	28.66	29.29	12.56	14.81	17.06
2954.5	27.01	27.69	28.21	12.84	15.11	17.36
3035.0	26.75	27.11	27.43	13.37	15.59	17.72
3095.4	27.03	27.12	27.22	14.04	16.19	18.11
3175.9	27.52	27.31	27.08	14.34	16.25	17.80
3236.3	27.75	27.51	27.13	14.68	16.28	17.49
3316.9	27.80	27.58	27.22	15.08	16.21	16.93
3377.3	27.62	27.36	27.06	15.33	16.09	16.49
3457.8	27.26	26.92	26.63	15.61	15.96	16.06
3518.2	27.17	26.79	26.50	15.97	16.03	15.94
3598.8	27.17	26.73	26.42	16.58	16.20	15.80
3659.2	27.25	26.75	26.42	17.15	16.40	15.79
3739.7	27.40	26.83	26.47	17.89	16.65	15.80
3800.1	27.59	26.99	26.61	18.39	16.81	15.80

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+4	+7	+10
800.1	830.1	12.25	11.76	11.61
880.6	910.6	12.76	12.53	12.39
961.2	991.2	13.48	13.36	13.23
1041.7	1071.7	14.21	14.29	14.15
1122.2	1152.2	15.08	15.37	15.40
1202.8	1232.8	15.99	16.31	16.47
1283.3	1313.3	17.25	17.60	17.81
1363.9	1393.9	18.80	19.17	19.44
1444.4	1474.4	20.71	21.20	21.60
1524.9	1554.9	22.73	23.26	23.57
1605.5	1635.5	24.45	24.68	24.85
1686.0	1716.0	25.73	25.79	25.66
1766.5	1796.5	25.52	25.45	25.29
1847.1	1877.1	24.47	24.24	24.05
1927.6	1957.6	23.91	23.54	23.24
2008.2	2038.2	23.81	23.41	23.03
2088.7	2118.7	24.06	23.65	23.15
2169.2	2199.2	24.05	23.78	23.44
2249.8	2279.8	23.46	23.37	23.31
2330.3	2360.3	22.98	22.99	23.11
2410.8	2440.8	22.63	22.76	23.05
2491.4	2521.4	22.56	22.88	23.38
2571.9	2601.9	23.18	23.64	24.06
2652.4	2682.4	24.21	24.51	24.76
2733.0	2763.0	25.47	25.54	25.66
2813.5	2843.5	26.61	26.63	26.68
2894.1	2924.1	26.93	27.02	27.07
2954.5	2984.5	26.76	26.83	26.97
3035.0	3065.0	26.53	26.61	26.83
3095.4	3125.4	26.64	26.72	26.96
3175.9	3205.9	27.02	27.02	27.16
3236.3	3266.3	27.48	27.33	27.36
3316.9	3346.9	28.07	27.82	27.67
3377.3	3407.3	28.62	28.36	28.13
3457.8	3487.8	29.43	29.15	28.93
3518.2	3548.2	29.98	29.78	29.64
3598.8	3628.8	30.98	30.79	30.71
3659.2	3689.2	31.49	31.33	31.27
3739.7	3769.7	32.10	32.03	31.91
3800.1	3830.1	32.66	32.68	32.60

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)		
		@LO (dBm)		
		+4	+7	+10
800.1	830.1	8.01	7.05	6.56
880.6	910.6	7.28	6.42	6.11
961.2	991.2	6.71	5.83	5.49
1041.7	1071.7	6.03	5.19	4.80
1122.2	1152.2	5.12	4.48	4.09
1202.8	1232.8	4.50	4.10	3.79
1283.3	1313.3	4.17	3.90	3.71
1363.9	1393.9	3.98	3.79	3.67
1444.4	1474.4	3.62	3.43	3.33
1524.9	1554.9	3.13	2.91	2.81
1605.5	1635.5	2.82	2.58	2.48
1686.0	1716.0	2.54	2.33	2.21
1766.5	1796.5	2.27	2.07	1.97
1847.1	1877.1	1.92	1.72	1.62
1927.6	1957.6	1.65	1.43	1.30
2008.2	2038.2	1.51	1.30	1.15
2088.7	2118.7	1.42	1.23	1.09
2169.2	2199.2	1.62	1.43	1.27
2249.8	2279.8	1.69	1.52	1.39
2330.3	2360.3	1.67	1.54	1.44
2410.8	2440.8	1.72	1.60	1.54
2491.4	2521.4	1.77	1.67	1.65
2571.9	2601.9	1.80	1.71	1.69
2652.4	2682.4	1.73	1.65	1.62
2733.0	2763.0	1.67	1.59	1.56
2813.5	2843.5	1.73	1.66	1.62
2894.1	2924.1	2.11	2.03	1.98
2954.5	2984.5	2.65	2.55	2.47
3035.0	3065.0	3.24	3.13	3.03
3095.4	3125.4	3.75	3.64	3.54
3175.9	3205.9	4.27	4.19	4.09
3236.3	3266.3	4.78	4.72	4.60
3316.9	3346.9	6.24	6.09	5.89
3377.3	3407.3	9.04	8.72	8.35
3457.8	3487.8	9.69	9.28	8.86
3518.2	3548.2	8.01	7.70	7.41
3598.8	3628.8	8.23	7.90	7.70
3659.2	3689.2	8.99	8.60	8.35
3739.7	3769.7	10.07	9.48	9.13
3800.1	3830.1	11.61	10.69	10.25

LO (MHz)	LO VSWR (:1)		
	@LO (dBm)		
	+4	+7	+10
800.1	15.53	10.62	7.34
880.6	12.89	8.39	6.35
961.2	10.25	6.73	5.74
1041.7	8.47	5.81	5.36
1122.2	6.94	5.09	4.93
1202.8	5.72	4.52	4.56
1283.3	4.68	4.12	4.35
1363.9	4.10	3.87	4.18
1444.4	3.70	3.67	4.04
1524.9	3.34	3.47	3.89
1605.5	3.03	3.25	3.73
1686.0	2.83	3.11	3.60
1766.5	2.69	3.01	3.50
1847.1	2.57	2.94	3.44
1927.6	2.51	2.95	3.50
2008.2	2.49	2.98	3.56
2088.7	2.41	2.89	3.46
2169.2	2.35	2.86	3.41
2249.8	2.34	2.89	3.48
2330.3	2.37	2.99	3.61
2410.8	2.40	3.02	3.68
2491.4	2.34	2.94	3.58
2571.9	2.23	2.80	3.43
2652.4	2.18	2.75	3.40
2733.0	2.16	2.73	3.35
2813.5	2.17	2.72	3.33
2894.1	2.22	2.74	3.34
2954.5	2.21	2.71	3.27
3035.0	2.25	2.72	3.26
3095.4	2.36	2.84	3.40
3175.9	2.43	2.89	3.42
3236.3	2.42	2.86	3.35
3316.9	2.50	2.93	3.43
3377.3	2.58	3.02	3.53
3457.8	2.61	3.04	3.54
3518.2	2.72	3.11	3.58
3598.8	2.95	3.33	3.82
3659.2	3.12	3.45	3.91
3739.7	3.40	3.65	4.06
3800.1	3.72	3.91	4.31

IF (OUT) (MHz)	IF VSWR @LO=2500.1MHz (:1)		
	@LO (dBm)		
	+4	+7	+10
10.1	1.50	1.62	1.20
25.2	1.50	1.38	1.25
40.4	1.47	1.37	1.23
55.5	1.41	1.28	1.20
70.6	1.42	1.26	1.17
85.7	1.39	1.23	1.17
100.9	1.42	1.31	1.21
116.0	1.47	1.33	1.23
131.1	1.48	1.35	1.28
146.3	1.47	1.34	1.28
161.4	1.49	1.36	1.29
176.5	1.51	1.38	1.33
191.6	1.53	1.40	1.36
206.8	1.56	1.45	1.40
221.9	1.54	1.45	1.43
237.0	1.53	1.47	1.44
252.2	1.54	1.47	1.47
267.3	1.55	1.49	1.50
282.4	1.57	1.52	1.52
297.5	1.59	1.55	1.56
312.7	1.60	1.58	1.60
327.8	1.62	1.61	1.64
342.9	1.61	1.62	1.66
358.0	1.60	1.62	1.68
373.2	1.61	1.64	1.69
388.3	1.66	1.69	1.75
403.4	1.70	1.75	1.81
418.6	1.72	1.78	1.87
433.7	1.71	1.79	1.87
448.8	1.72	1.80	1.89
463.9	1.77	1.84	1.93
479.1	1.83	1.92	2.02
494.2	1.90	2.00	2.11
509.3	1.94	2.05	2.17
524.5	1.96	2.08	2.21
539.6	1.99	2.12	2.25
554.7	2.03	2.17	2.31
569.8	2.09	2.23	2.37
585.0	2.16	2.33	2.47
600.1	2.23	2.40	2.55

Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+16	30	8	20	26	41	28	42	39	46
1	-	19	+0	38	35	38	34	44	46	46	56	56
2	100	57	46	47	37	60	45	56	57	60	63	59
3	108	64	61	70	60	68	68	81	58	68	64	71
4	105	84	70	89	72	76	66	85	72	76	80	79
5	110	96	88	99	95	107	79	87	97	90	85	86
6	109	102	102	113	94	109	95	91	96	100	98	101
7	114	101	103	104	103	102	104	112	84	108	106	98
8	114	95	103	105	100	104	107	102	96	92	115	105
9	111	96	96	100	93	107	99	107	109	101	91	103
10	113	101	97	94	104	97	100	102	103	111	102	97
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 2100.1 MHz; -14.00 dBm.
 LO IN: 2130.01 MHz; +7.00 dBm
 IF OUT: 29.91 MHz; -19.47 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	+6	41	20	35	33	56	38	66	50	67
1	-	18	+0	41	34	43	41	52	63	56	70	65
2	80	57	42	39	34	59	43	48	65	71	55	68
3	115	41	41	51	31	57	56	64	53	69	65	68
4	90	62	53	60	53	54	44	66	55	60	65	79
5	119	73	63	69	59	64	50	62	62	72	59	75
6	113	75	68	76	61	71	64	65	55	74	65	73
7	117	78	88	84	73	78	79	83	60	69	70	79
8	106	84	85	87	76	79	70	82	73	70	65	80
9	104	88	92	86	100	96	89	80	87	81	70	77
10	111	94	95	92	99	95	87	87	79	95	80	78
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 2100.1 MHz; -4.00 dBm.
 LO IN: 2130.01 MHz; +7.00 dBm
 IF OUT: 29.91 MHz; -9.68 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. X2
 ADE-18
 100817

Page 5 of 5



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