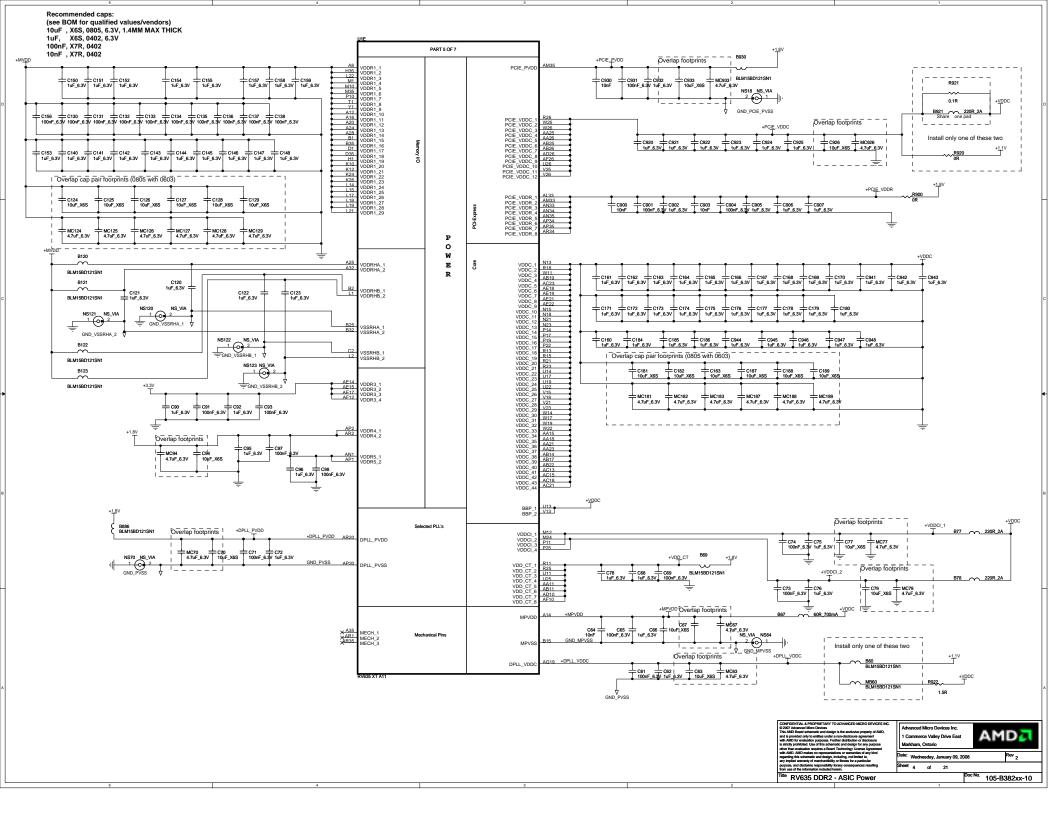
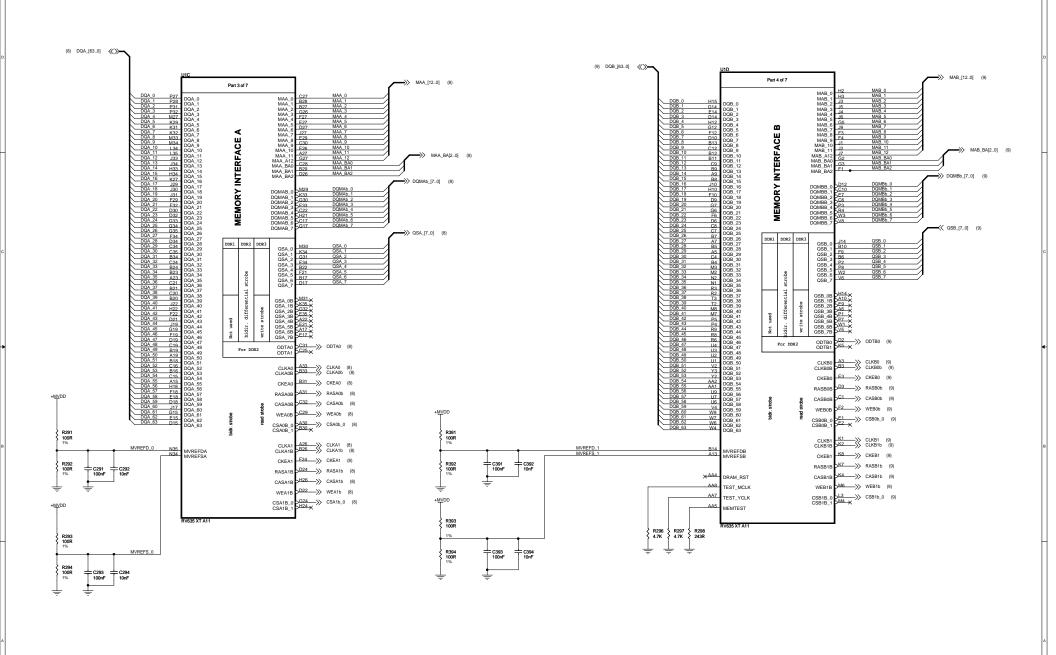
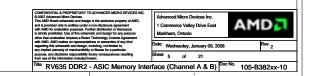


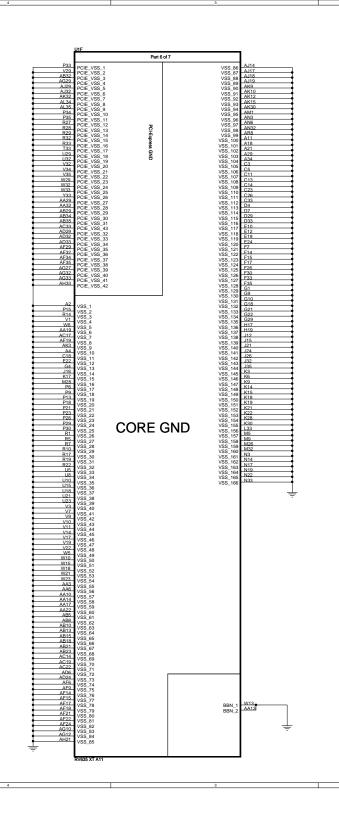
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Recommended caps: (see BOM for qualified values/vendors) 10uF , X6S, 0805, 6.3V, 1.4MM MAX THICK 1uF, X6S, 0402, 6.3V 100nF. X7R. 0402 10nF . X7R. 0402 Place close to ASIC Place close to Connector PART 2 OF 7 R120 Integrated DP/TMDS
TXCAM_DPA3N
TXCAP_DPA3N C1127 | 100nF_6.3V (15) T2XCMX-(15) T2XCRX-T2XCM T2XCP T2XCM T2XCP DPA_C_3N DPA_C_3P ->T1XCM (16) ->T1XCP (16) R121 _____ 499R C1125 C1124 | 100nF_6.3V T1X0M (16) T1X0P (16) T2X0M T2X0P TX0M_DPA2 R101 ____ R124 _____ 499R R123 _____ 499R C1123 | 100nF_6.3V AR23 T2X1M T2X1P TX1M_DPA1N TX1P_DPA1R R126 _____ 499R R125 499R C1121 | 100nF_6.3V AR24 T1X2M (16) T2X2M T2X2P D E TX2M_DPA0N TX2P_DPA0P (15) T2X2M(-(15) T2X2R(-R103 _____1 R127 _____ 499R (15) T2X3M(-(15) T2X3R(-T2X3M T2X3P 0 C1137 | 100nF_6.3V TXCBM_DPB3N TXCBP_DPB3P DPB_3N (17) DPB_3P (17) R104 _____ 100R T2X4M (15) (15) T2X4M T2X4P C1135 | 100nF_6.3V DPB_2N (17) DPB_2P (17) TX3M DPB2N TX3P DPB2 DP_GND AR27 Γ2X5M Γ2X5P B889 BLM15BD121SN1 +T2PVDD C1133 | 100nF_6.3V DPB_1N (17) υ L C1131 | 100nF_6.3V TX5M_DPB0N TX5P_DPB0N DPB_0N (17) T Q110 Si2304DS = C102 1uF_6.3V C100 + MC100 4.7uF_6.3V 100nF_6.3V (13) LVT EN >> T2XVDDC_1 150R DP CALR R128 Q100 SI2304DS AG15 DP CALR Overlap footprints GND_T2PVSS Overlap footprints DPA_PVDD AM14 DPA_PVSS AL14 BLM15BD121SN1 Use OR B100 I T2XVDDR_1 T2XVDDR_2 + C113 10uF_X6S BLM15BD121SN MC103 DPA_VDDR_ DPA_VDDR_ Overlap footprints BLM15BD121SN1 T2XVSSR_T (13) LVT_EN >>-C191 C192 MC192 TuF_6.3V 10uF_X6S 4.7uF_6.3V DPA VSSR AN12 AN13 AN14 NS190 DPA_VSSR_I DPA_VSSR_I DPA_VSSR_I DPA_VSSR_I T2XVSSR_S T2XVSSR_S T2XVSSR_S NS_VIA R109 0R Overlap_footprints _ _ _ I T+DPA_VDDR BLM15BD121SN1 2XVSSR ▼ GND_DBPVSS AP26 T2XVSSR_6 F2XVSSR_7 F2XVSSR_8 F2XVSSR_9 F2XVSSR_10 F2XVSSR_11 F2XVSSR_12 +LTVDD33 DPB_VDDR_ DPB_VDDR_ AN19 AN20 C115 C116 C117 MC117 MC117 100nF 1uF_6.3V 10uF_X6S 4.7uF_6.3V AR21 AR26 AJ24 AN16 AN17 AN18 AR18 AP18 C105 100nF_6.3V DPB_VSSR_ DPB_VSSR_ DPB_VSSR_ DPB_VSSR_ DPB_VSSR_ AM22 AM24 AM26 Overlap footprints__ _ _ J C107 : 1uF_6.3V BLM15BD121SN1 +1.1V T2XVSSR_13 T2XVSSR_14 C194 C195 MC195 1uF_6.3V 10uF_X6S 4.7uF_6.3V (1) DDC1DATA_TDI
TR13 DNT_OR A_DAC1_R (15) A_DAC1_RB (15) DDC1DATA DDC1CLK Monitor Interface R40 R41 4.7K 4.7K DAC / CRT (15) CRT1DDCDATA (15) CRT1DDCCLK A_DAC1_G (15) A_DAC1_GB (15) (13,18) DDC2DATA (13,18) DDC2CLK DDC2DATA DDC2CLK AR29 A_DAC1_B (15) A_DAC1_BB (15) DDC3DATA_DP3_AUXN DDC3CLK_DP3_AUXP (16) DDC3_DATA_DP3_AUXN
(16) DDC3_CLK_DP3_AUXP TR14 ____OR →>> HSYNC1_TRST (1) DDC4DATA_DP4_AUXN DDC4CLK_DP4_AUXP DDC4_DATA_DP4_AUXN 7) DDC4_CLK_DP4_AUXP HSYNC VSYNC B882 BLM15BD121SN1 RSET R1030 499R GND_AVSSQ +AVDD TR10 OR ->> VSYNC1_TCK (1) (16) HPD1 >>-IPD1 RSET R35 R36 4.7K 4.7K (1) DDC1CLK_TMS << AVDE C1020 + C1021 + C1022 100F 1000F_6.3V 1uF_6.3V NS1020 NS_VIA 2 0 1 ∇ GND_AVSSQ SDA SCL AVSSC MMI2C B884 BLM15BD121SN +VDD1DI What happens to all the JTAG resistors especially R7 and also the TRs? AR28 VDD1D NS1021 NS_VIA (18) GPU_DMINUS (18) GPU_DPLUS (18) TS_FDO VSS1DI DMINUS DPLUS TS FDO DAC2 (TV/CRT2) R2 R2B TP42 35mil Do Not Share PADs AM18 AL18 G2B PLLTEST TESTEN (1) TEST_EN_R < AM1Z AL1Z MR7 1K HSYNC_DAC2 (7)
VSYNC_DAC2 (7) VREFG COMP R2SET R2030 715R GND_A2VSSQ XTALIN XTALOUT R2SE1 B883 BLM15BD121SN1 +A2VDDQ XTALOUT S A2VDD +3.3V_BUS C2021 100nF_6.3V C2022 1uF_6.3V A2VSSC 2020 NS_VIA 2 0 1 V GND_A2VSSQ B80 BLM15BD121SN1 NS2020 XTALOUT_S 4 VCC OUT VDD2D E/D VSS2D C2024 C2025 C2026 NS2021 10nF 100nF 6.3V 1uF 6.3V 2 A2VDD +A2VDD **B2030 26R_600mA** GND VSS2DI + C2030 + C2031 + C2032 10nF 100nF_6.3V 1uF_6.3V OSC EN ✓ OSC_EN (13,14) Overlap footprints C82 12pF_50V XTALIN_S R84 1M R_RTCLK dvanced Micro Devices Inc. 1 Commerce Valley Drive East XTALOUT S | C83 | 12pF_ Markham Ontario Wednesday, January 09, 2008 RV635 DDR2 - ASIC MAIN No. 105-B382xx-10

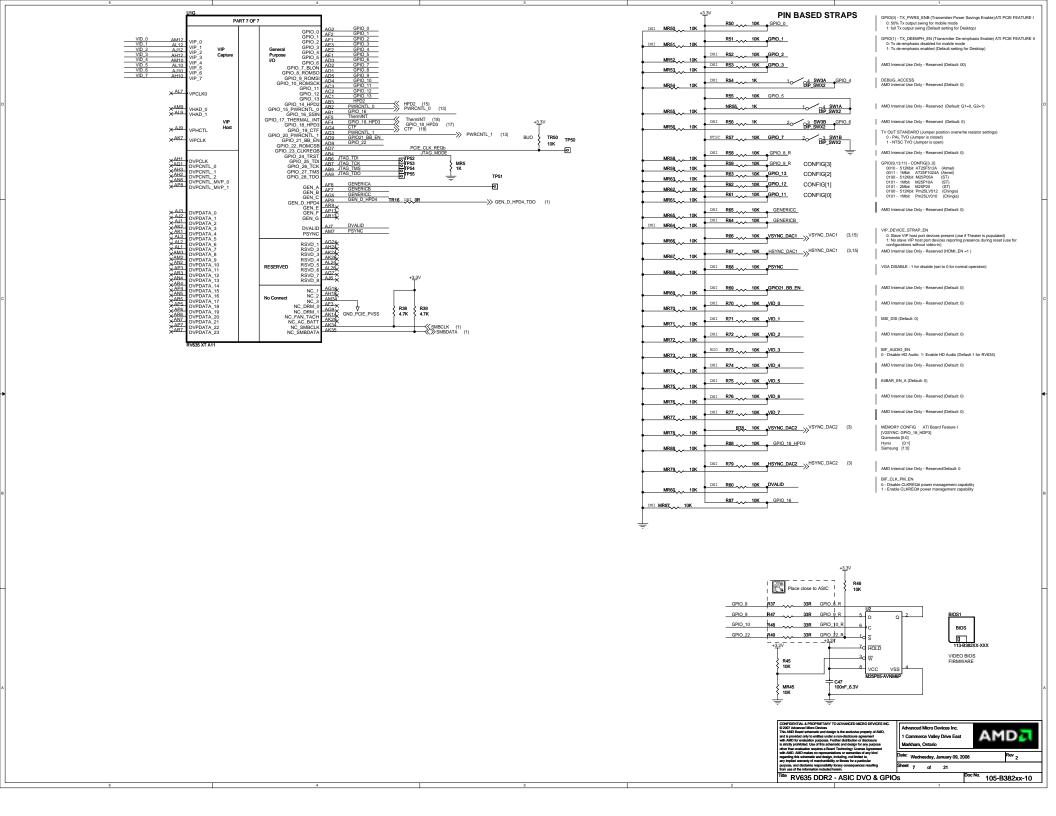




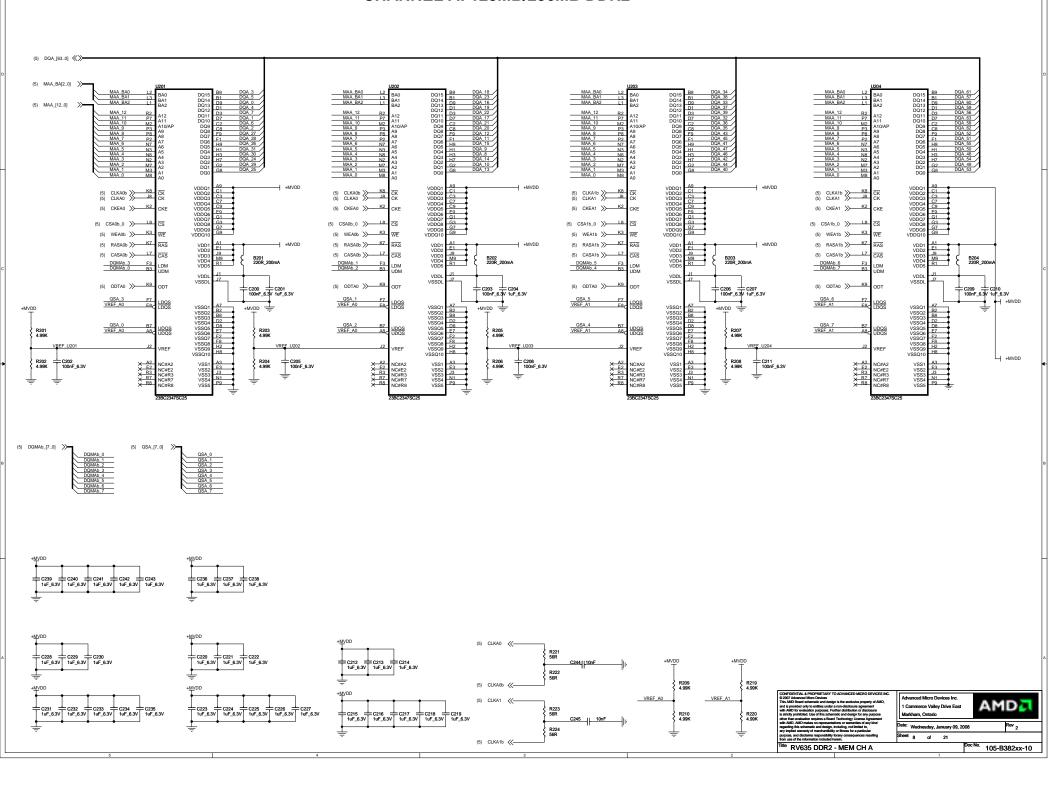




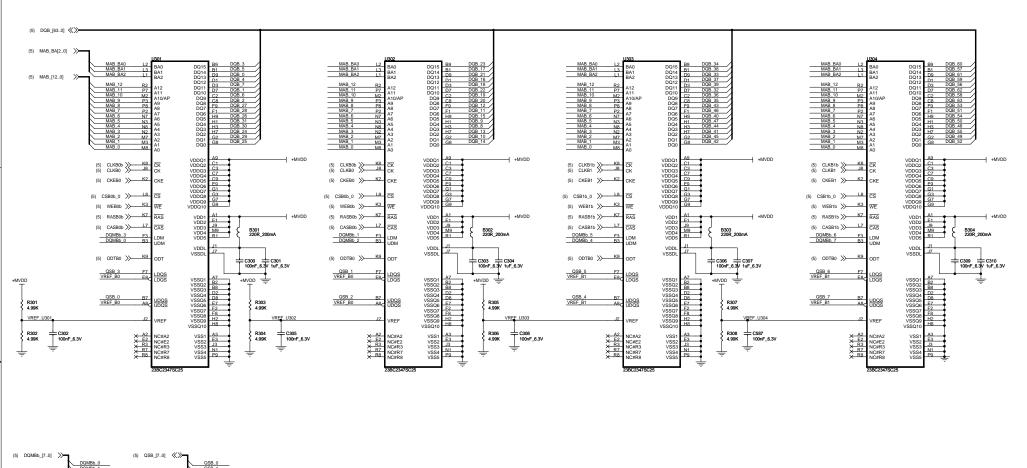
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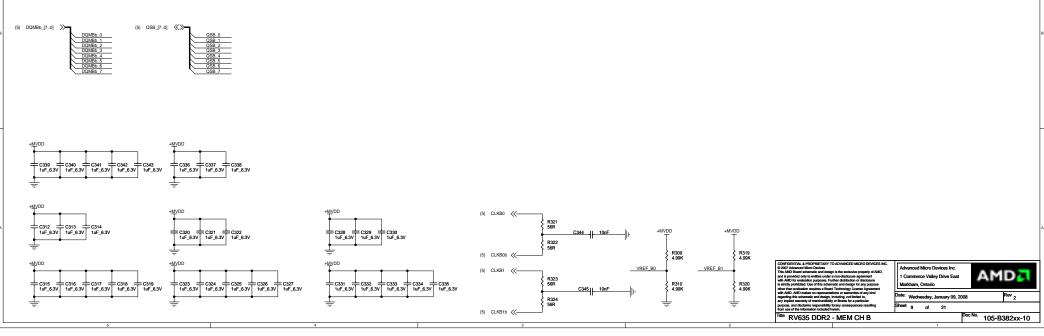


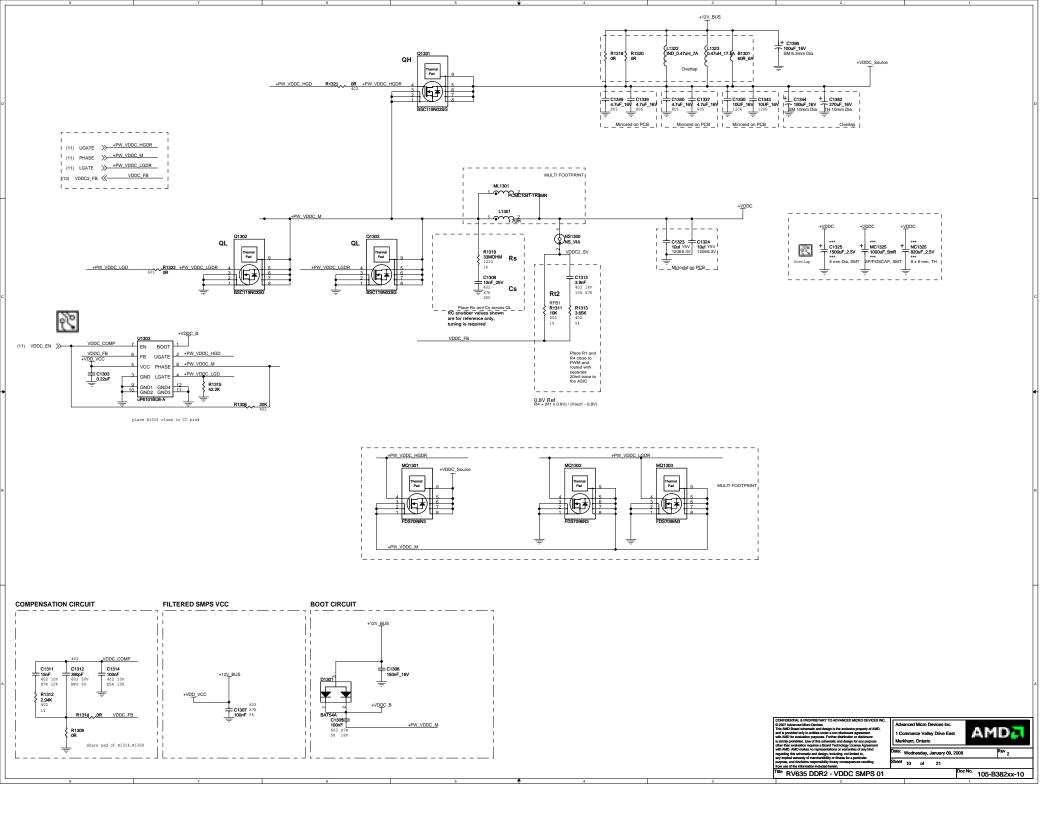
CHANNEL A: 128MB/256MB DDR2

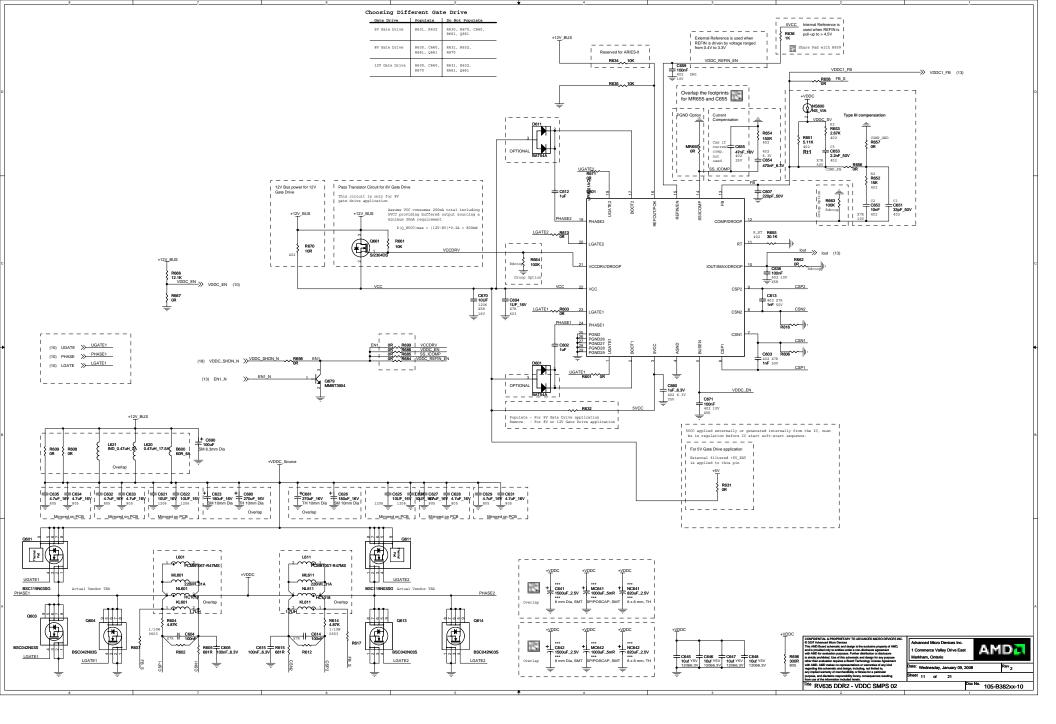


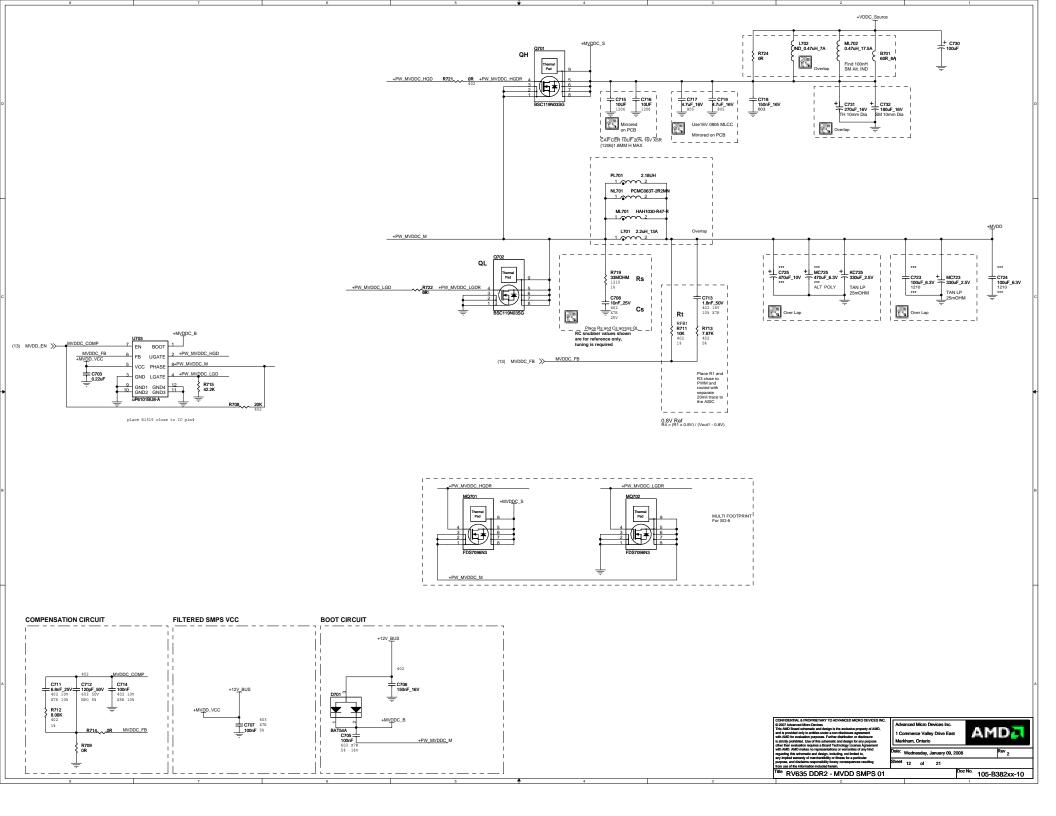
CHANNEL B: 128MB/256MB DDR2

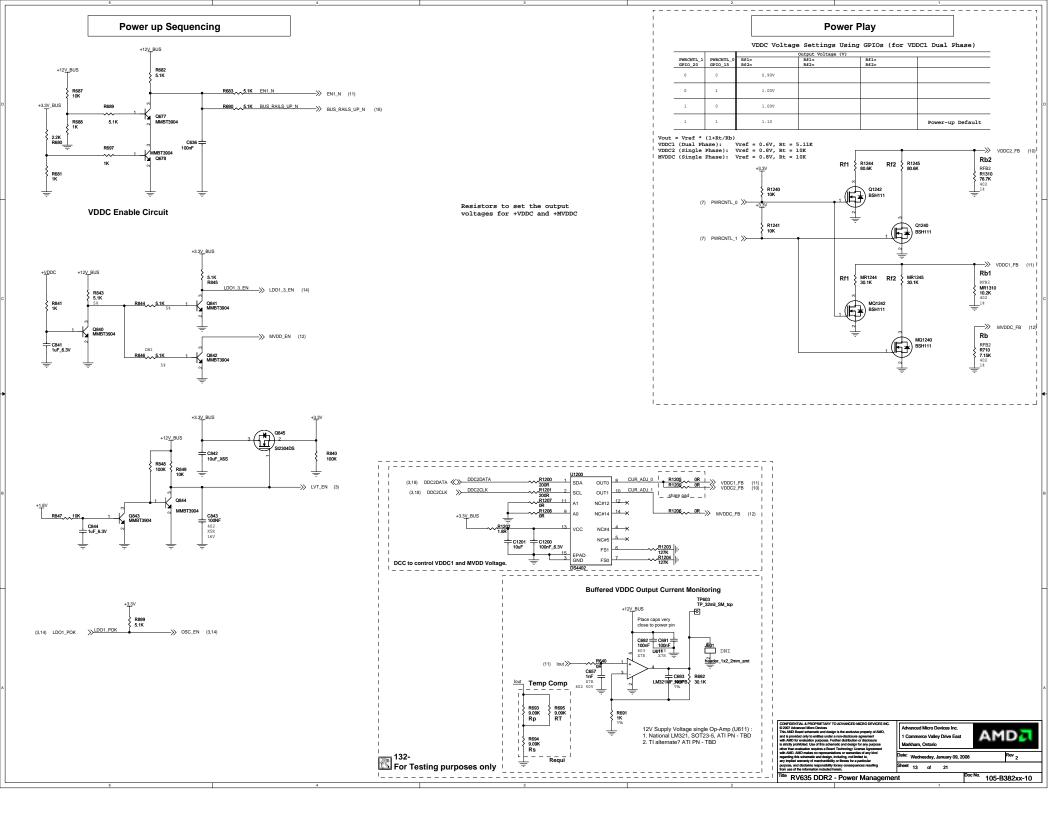


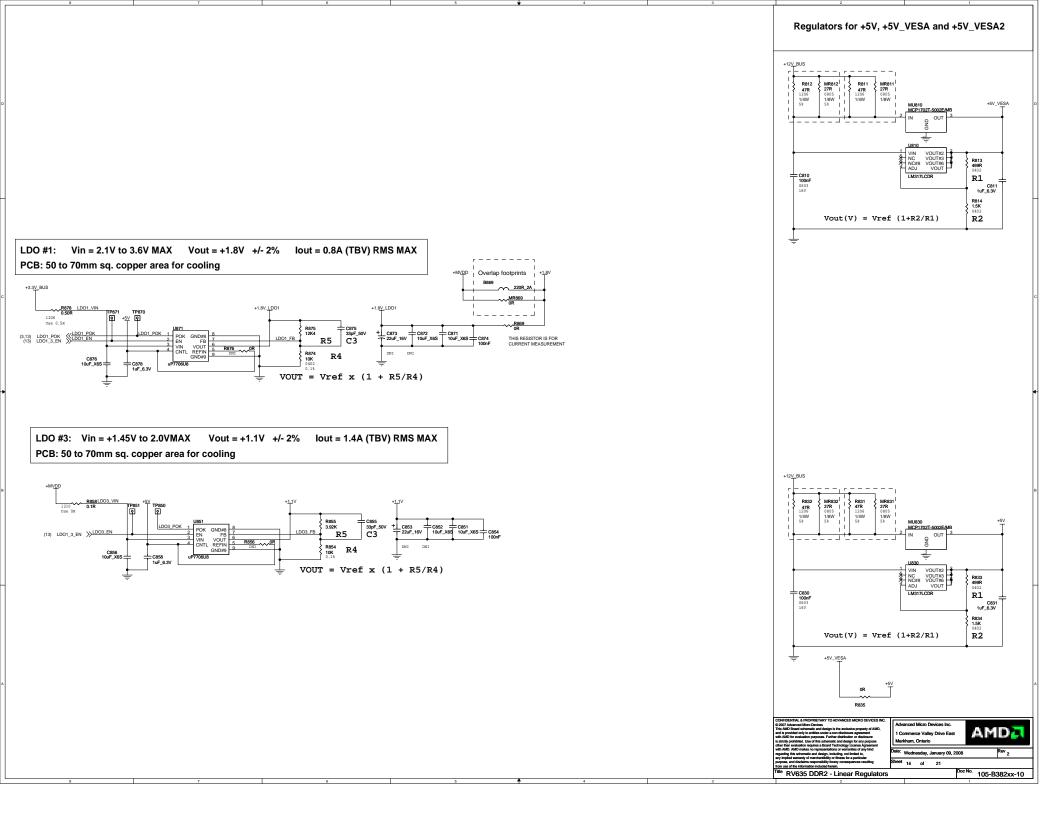


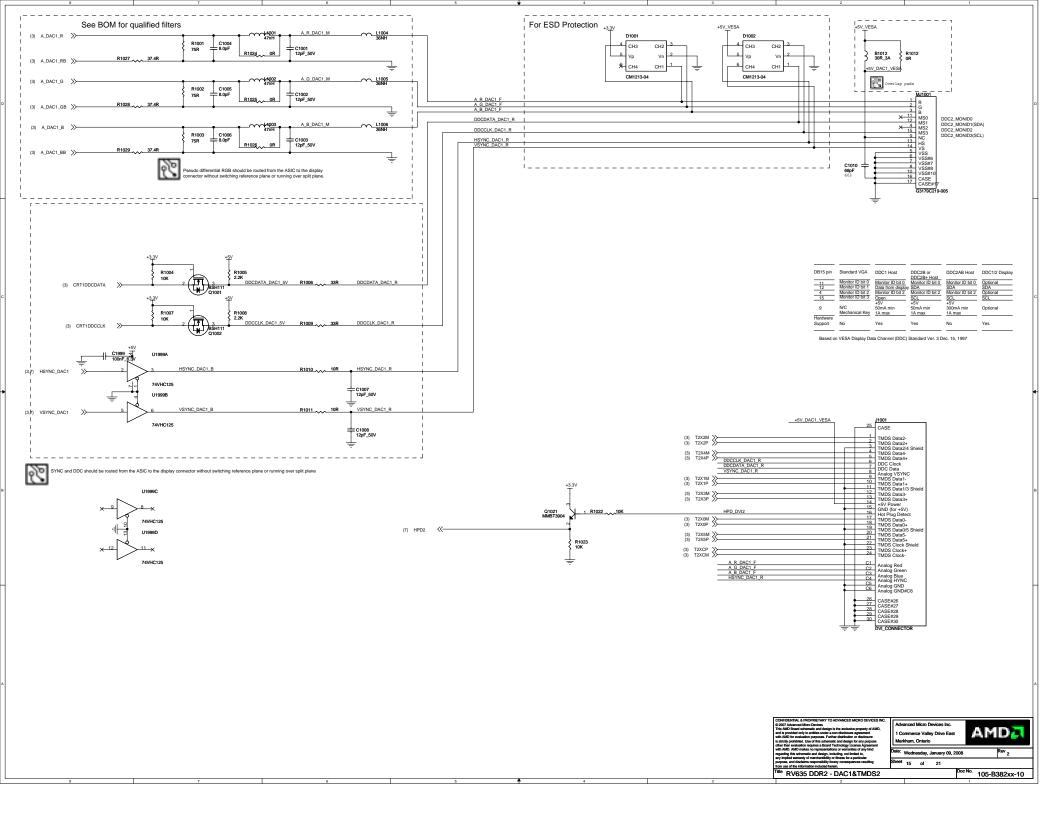


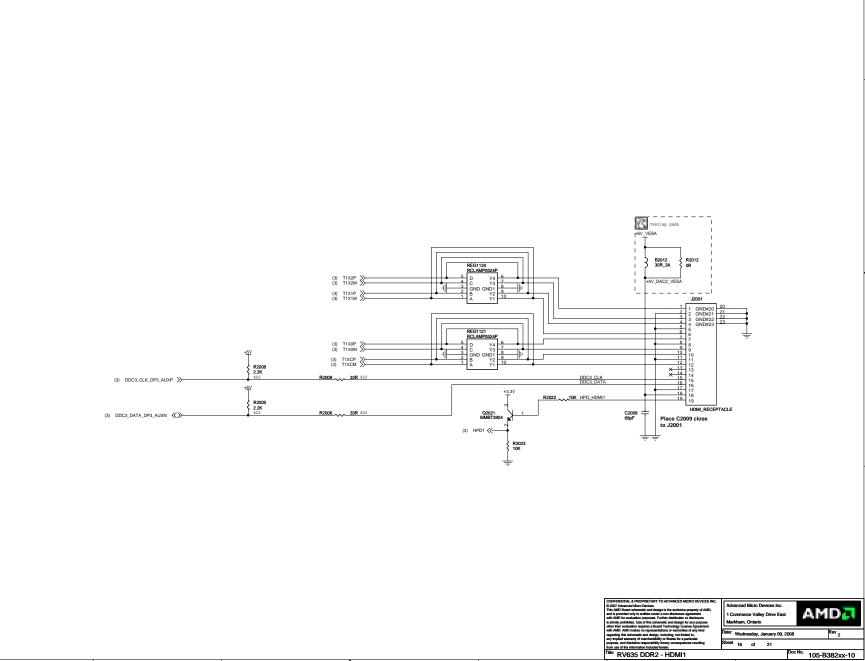


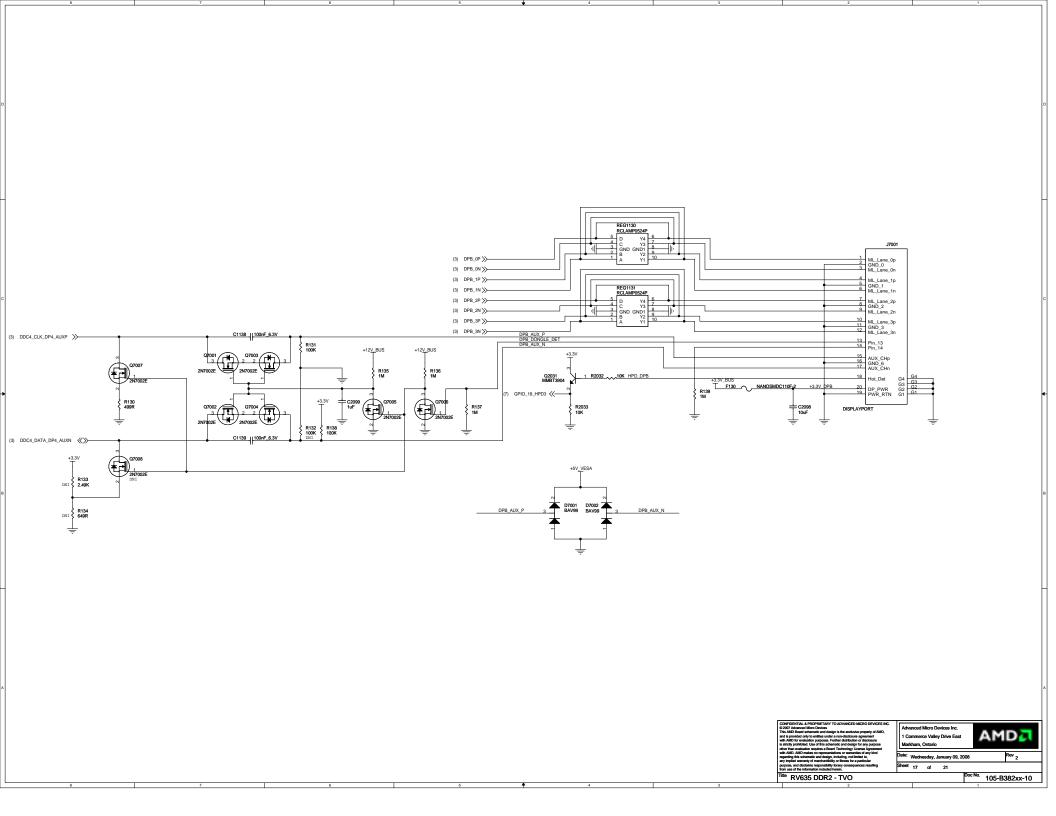


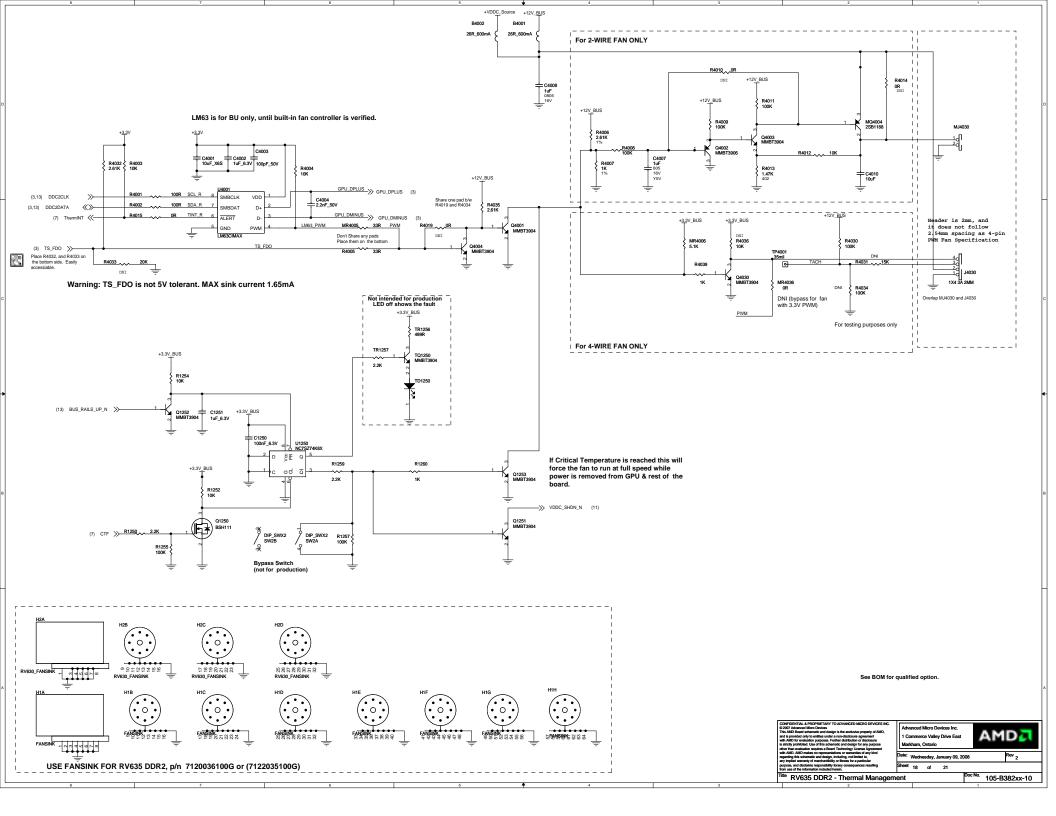


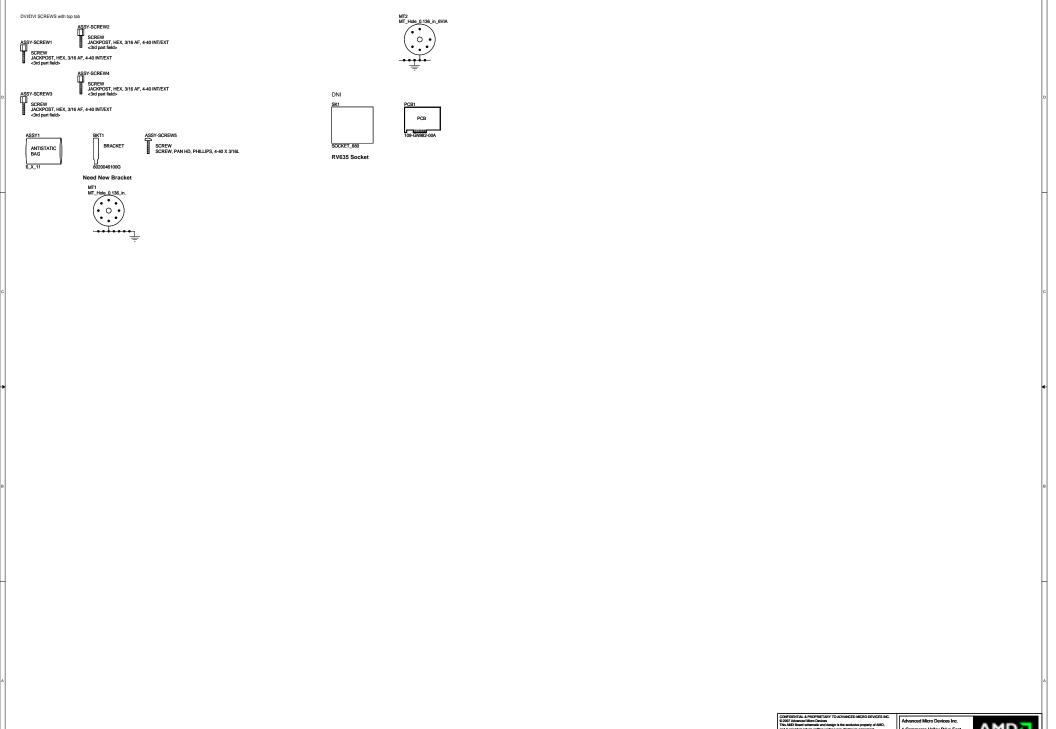








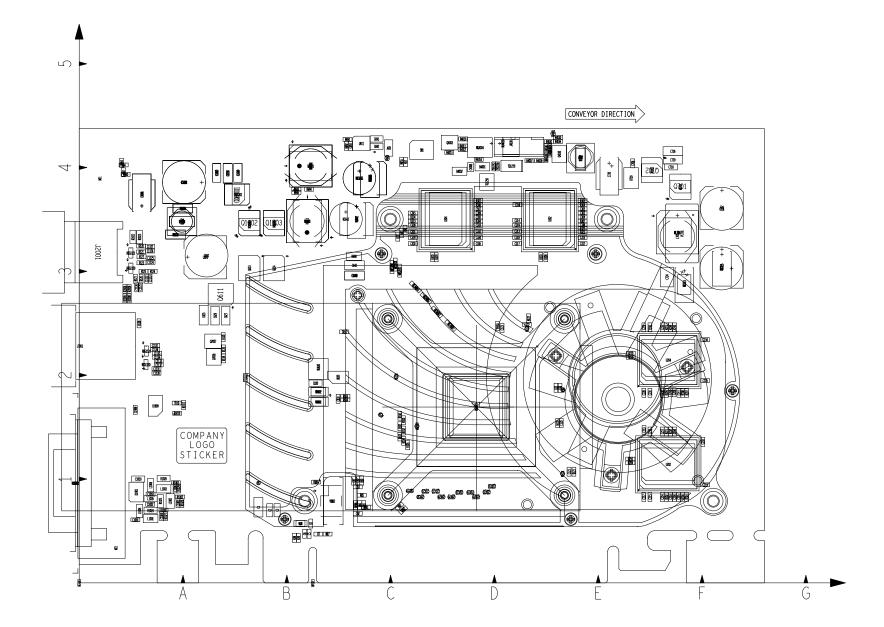




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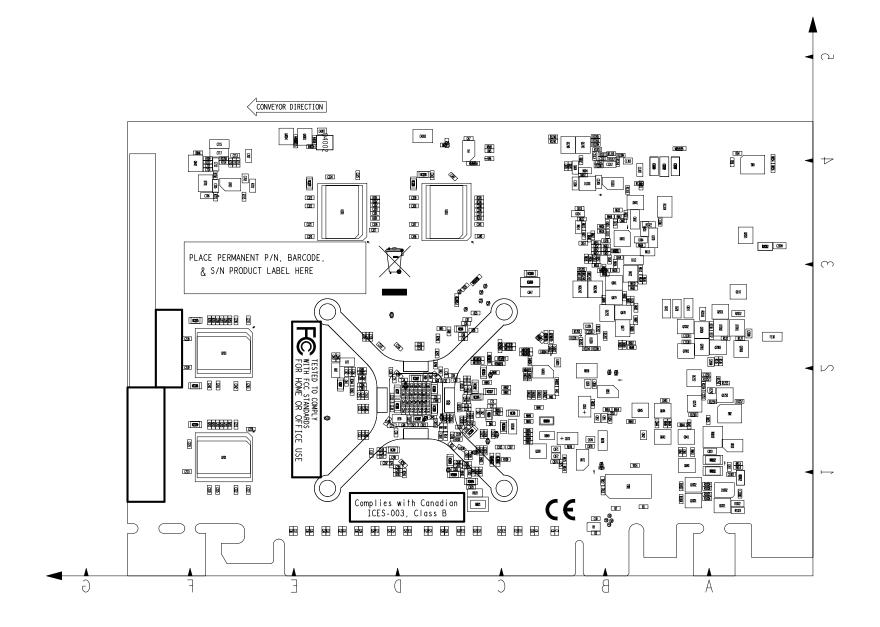
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ASSEMBLY TOP SHEET 1 OF 2

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