

CONFIDENTIAL INFORMERY TO ANY INCIDENCES INC.

TOTAL Advanced Micro Devices Inc.

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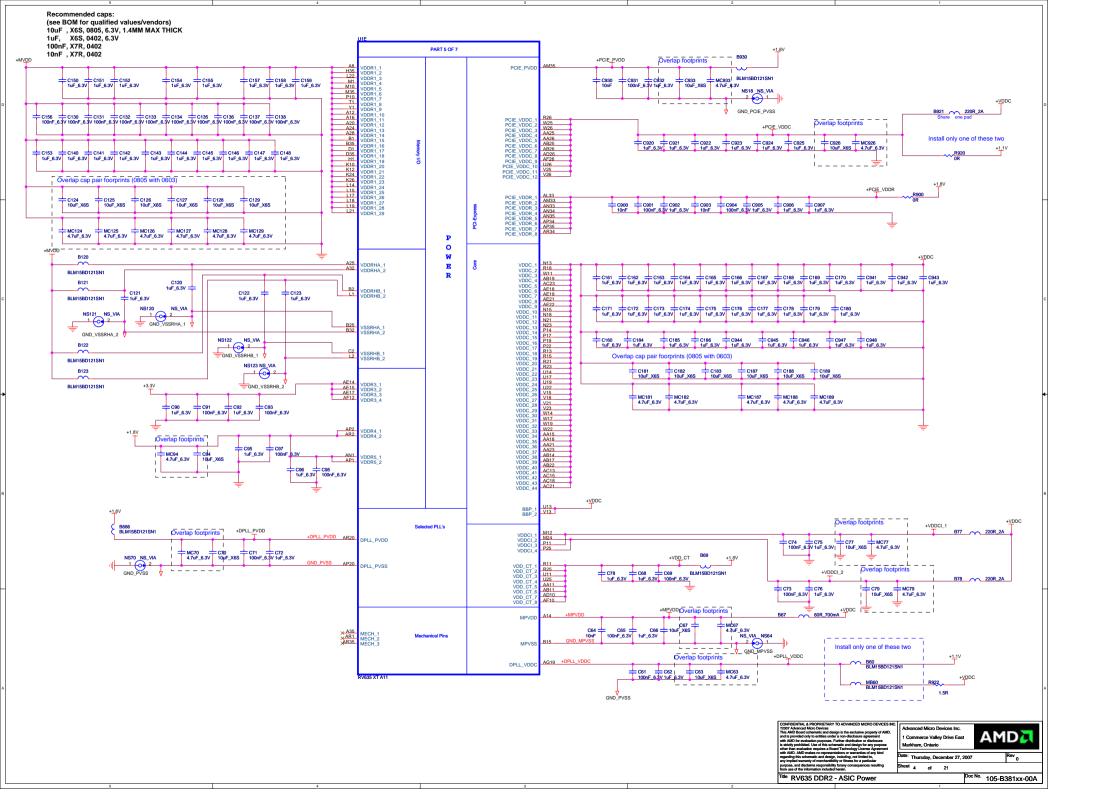
Advanced Micro Devices Inc.

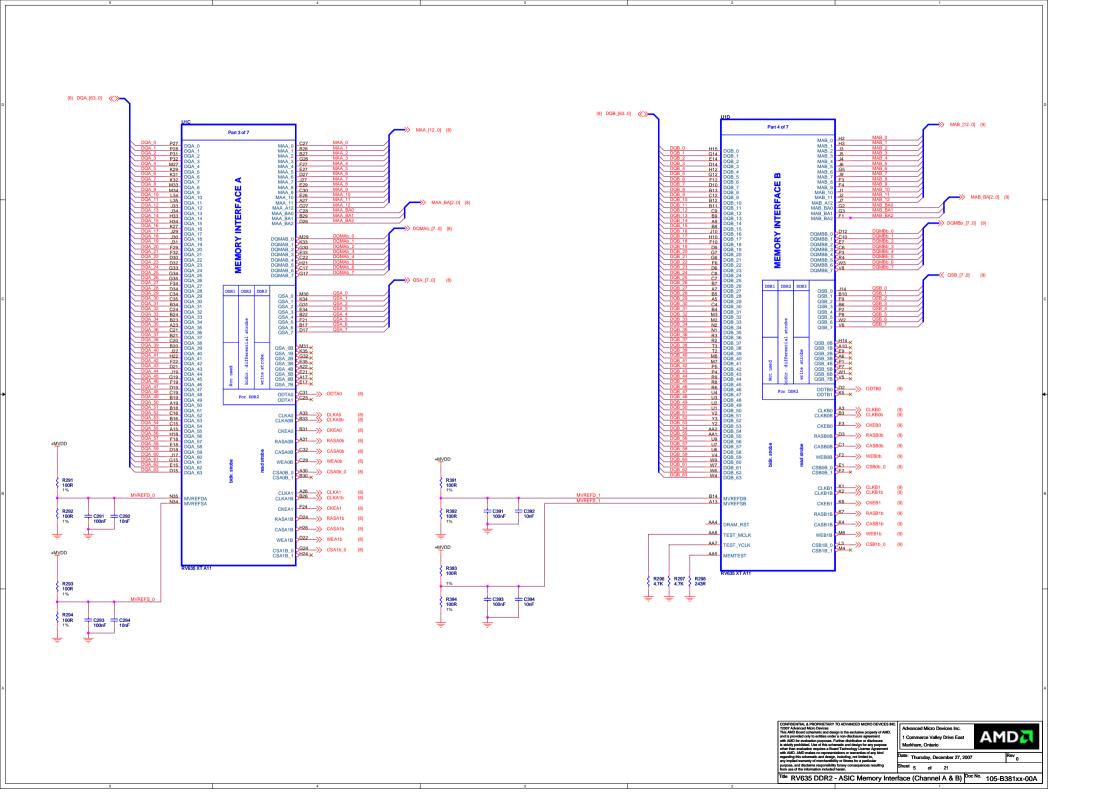
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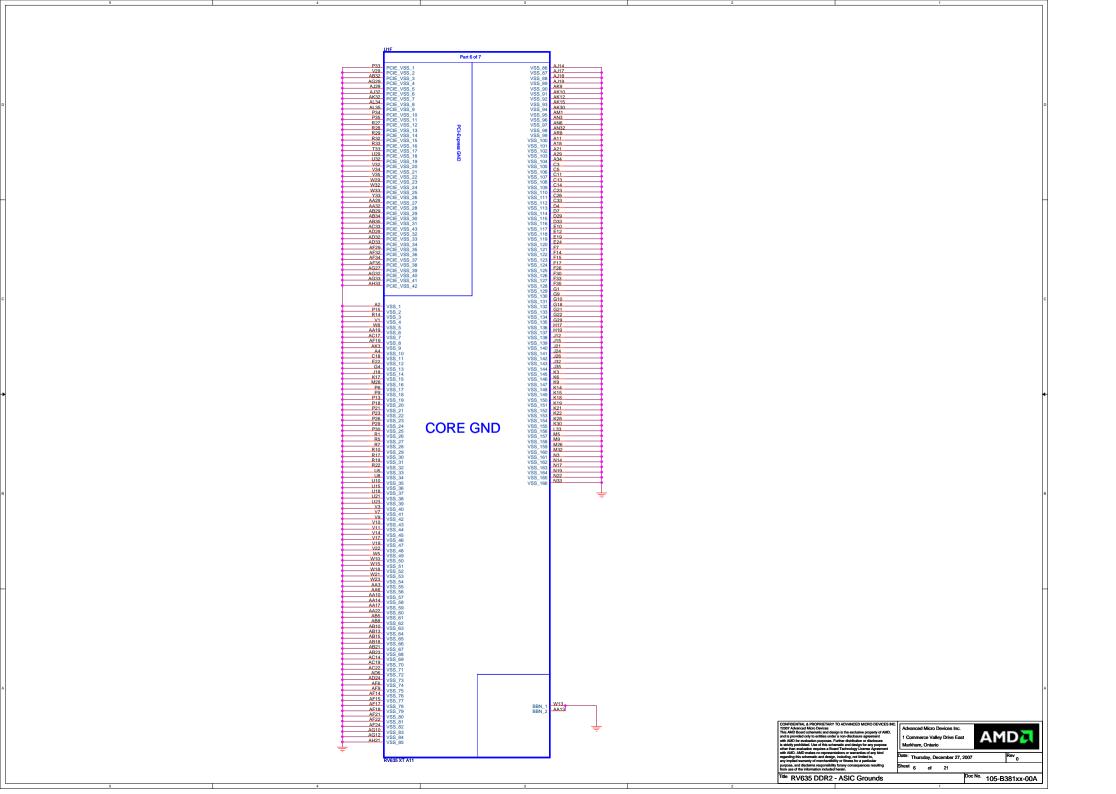
Commerce Valley Drive East

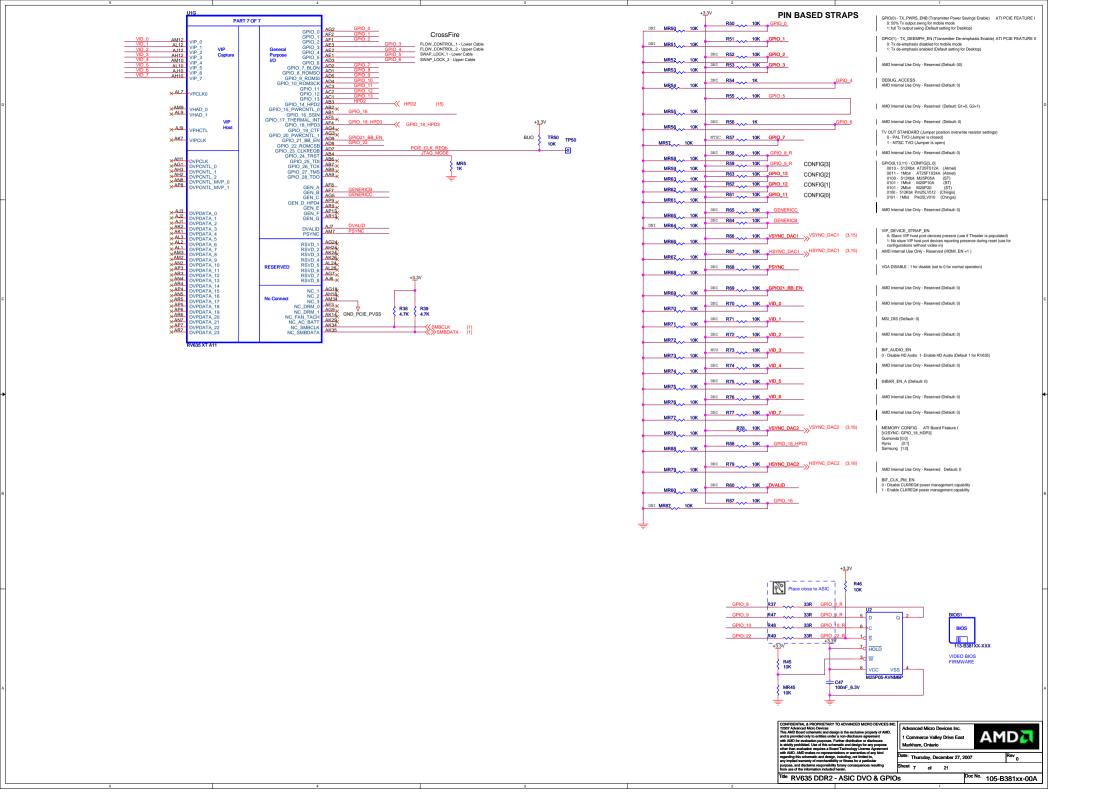
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Recommended caps: (see BOM for qualified values/vendors) 10uF , X6S, 0805, 6.3V, 1.4MM MAX THICK 1uF, X6S, 0402, 6.3V 100nF. X7R. 0402 10nF , X7R, 0402 PART 2 OF 7 AR23 AP23 AP24 TXCBM_DPB3N TXCBP_DPB3P {15} {15} 2X4M 2X4P TX3M_DPB2N AR15x TX3P_DPB2P AP15x (15) +T2P√DD 2Y5M TX4M_DPB1N AR16x TX4P_DPB1P AP16x B889 BLM15BD121SN1 2PVDD TX5M_DPB0N AR1Z TX5P_DPB0P AP1Z = C102 1uF_6.3V NS_VIA AK27 2XVDDC_1 2XVDDC_2 AG15 DP_CALR R128 150R Overlap footprints Al 27 DP_CALR T+DPA_PVDD GND_T2PVSS_ BLM15BD121SN1 ±LTVDD18 AL14 C112 C113 MC113 1uF_6.3V 10uF_X6S 4.7uF_6.3V AH17 AG17 AP19 AR19 DPA_VDDR_1 DPA_VDDR_2 GND DPAVSS Overlap footprints T+DPR PVDD BLM15BD121SN1 {13} LVT_EN >>--AN21 AN24 AN25 AN28 AP21 AP26 AR21 AR26 AJ24 AM22 AM24 AM26 AM27 NS190 NS_VIA R109 0R Overlap footprints. DNI for RV630 DPB_VDDR_ C115 C116 C117 MC117 MC117 100F_X6S 4.7uF_6.3V 2XVSSR_9 2XVSSR_1 RI M15RD121SN AN16 AN17 DPB_VSSR_1 DPB_VSSR_2 DPB_VSSR_3 DPB_VSSR_4 DPB_VSSR_5 Overlap footprints _ _ C107 : 1uF_6.3V AN18 AR18 +3.3V 2XVSSR 14 BLM15BD121SN1 R40 R41 4.7K 4.7K DAC/CRT (15) CRT1DDCDATA (\$\infty\) DDC2DATA DDC2CLK {16} CRT2DDCDATA (16) CRT2DDCCLK DDC3DATA_DP3_AUXN DDC3CLK_DP3_AUXP - A_DAC1_B {15}
- A_DAC1_BB {15} DDC4DATA_DP4_AUXN DDC4CLK_DP4_AUXP (16) DDC4_DATA_DP3_AUXN (16) DDC4_CLK_DP3_AUXP HSYNC_DAC1 {7,15} VSYNC_DAC1 {7,15} RSET R1030 499R GND_AVSSQ HPD1 >> (16) HPD1 RSET R35 R36 4.7K 4.7K C1020 C1021 C1022 10nF 100nF_6.3V 1uF_6.3V AVDE NS1020 NS_VIA 2 0 1 V GND_AVSSQ AVSSC B884 BLM15BD121SN1 What happens to all the JTAG resistors especially R7 and also the TRs? I2C DEVICE ADDRESS' ON DDC2 VDD10 NS1021 NS_VIA DEVICE ADDRESS LM63 ×100 1100 DP TBD VSS1D DMINUS DPLUS TS_FDO VREFG COMP R2SET R2030 715R GND_A2VSSQ XTALIN XTALOUT R2SET +A2VDDQ A2VDD0 C2022 1uF_6.3V C2021 100nF_6.3V A2VSSQ VDD2D +VDD2DI ♥ GND_A2VSSQ VSS2DI C2024 C2025 C2026 NS2021 NS_VIA +A2VDD B2030 26R_600mA +3.3V GND_VSS2DI_ 💆 _____ C2030 C2031 C2032 10nF 6.3V Overlap footprints EY82 27_MHZ 1 Commerce Valley Drive East C85 22pF Markham, Ontario Occ No. 105-B381xx-00A Title RV635 DDR2 - ASIC MAIN

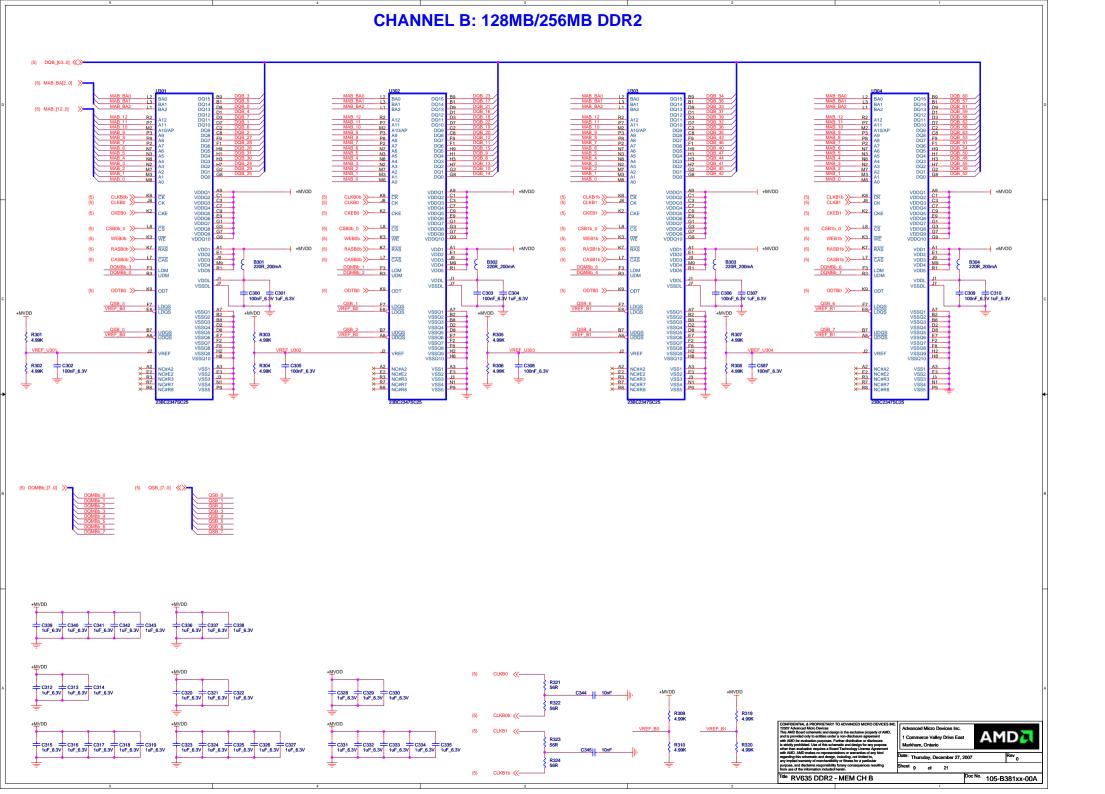




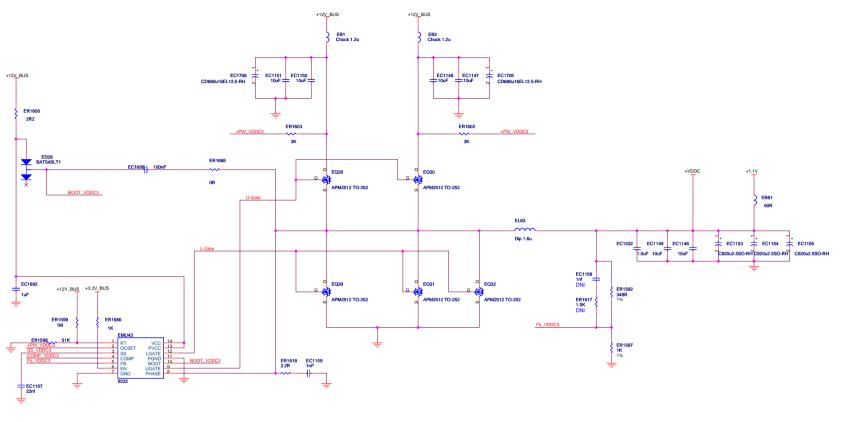




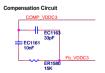
CHANNEL A: 128MB/256MB DDR2 (5) DOA (63 01 ((XX) (5) MAA_[12..0] VDDQ1 A9 C1 C1 C2 C3 C3 C7 VDDQ4 C9 VDDQ6 G1 VDDQ7 G3 VDDQ9 VDDQ9 G9 VDDQ10 G9 VDDQ3 VDDQ4 VDDQ5 VDDQ9 CAS B202 220R_200mA B203 220R_200mA VDDL C200 C201 100nF 6.3V 1uF 6.3V C203 = C204 100nF 6.3V 1uF 6.3V C206 C207 100nF_6.3V 1uF_6.3V C209 = C210 100nF_6.3V 1uF_6.3V VSSQ1 B2 VSSQ2 B8 VSSQ3 D2 VSSQ4 D8 VSSQ5 E7 VSSQ6 F7 +MVDD +MVDD R201 4.99K R203 4.99K +MVDD R202 4.99K VSS1 VSS2 VSS3 VSS4 VSS5 (5) DQMAb [7..0] >> (5) QSA [7..0] >> C239 C240 C241 C242 C243 1uF_6.3V 1uF_6.3V 1uF_6.3V 1uF_6.3V 1uF_6.3V C236 C237 C238 1uF_6.3V 1uF_6.3V 1uF_6.3V CLKA0 ((-C220 C221 C222 1uF_6.3V 1uF_6.3V 1uF_6.3V C212 C213 C214 1uF_6.3V 1uF_6.3V 1uF_6.3V R209 4.99K R219 4.99K CLKA0b //-+MVDD VREF_A1 **AMD** Commerce Valley Drive East R220 4.99K Markham, Ontario Date: Thursday, December 27, 2007 Doc No. 105-B381xx-00A Title RV635 DDR2 - MEM CH A



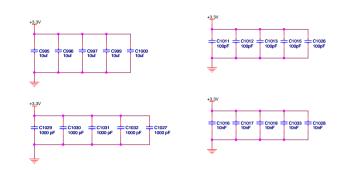
CORE REGULATOR VDDC



+VDDC=0.8*(1+(ER1592 / ER1597))







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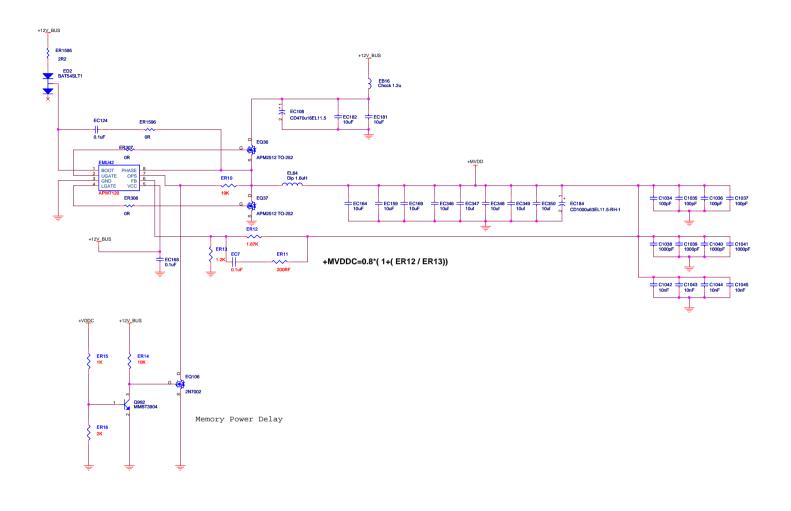
AMD 1 Commerce Valley Drive East

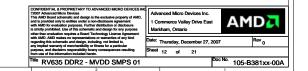
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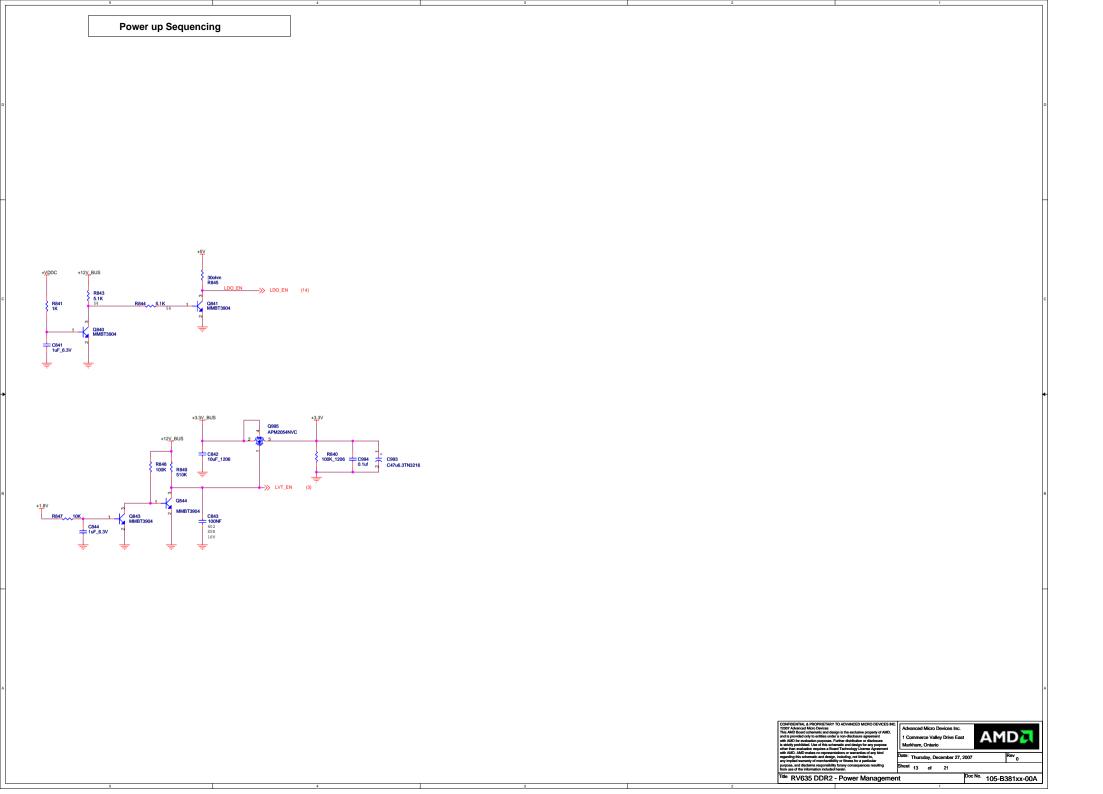
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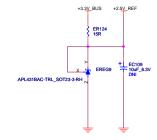
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Sheet 11 of 21

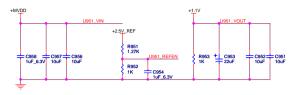


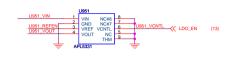


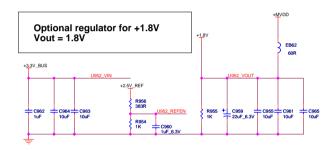


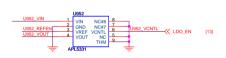


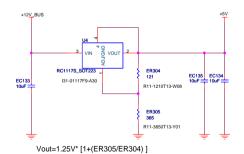
Optional regulator for +1.1V Vout = 1.1V











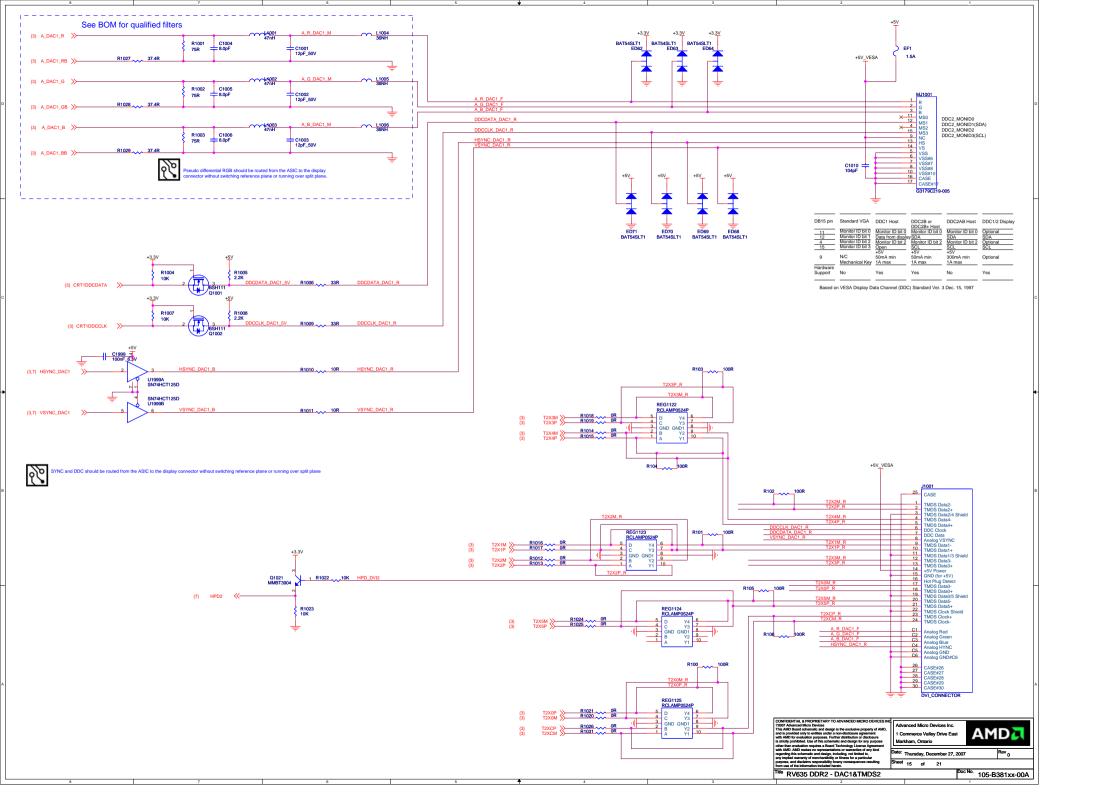
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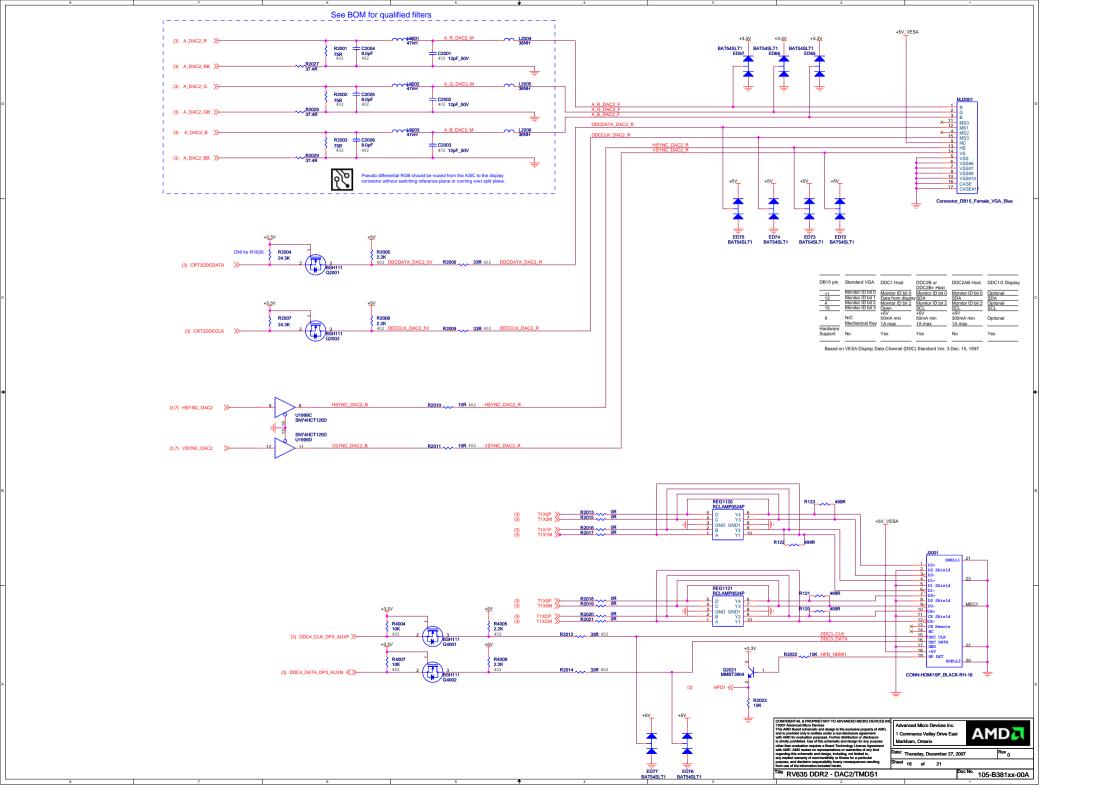
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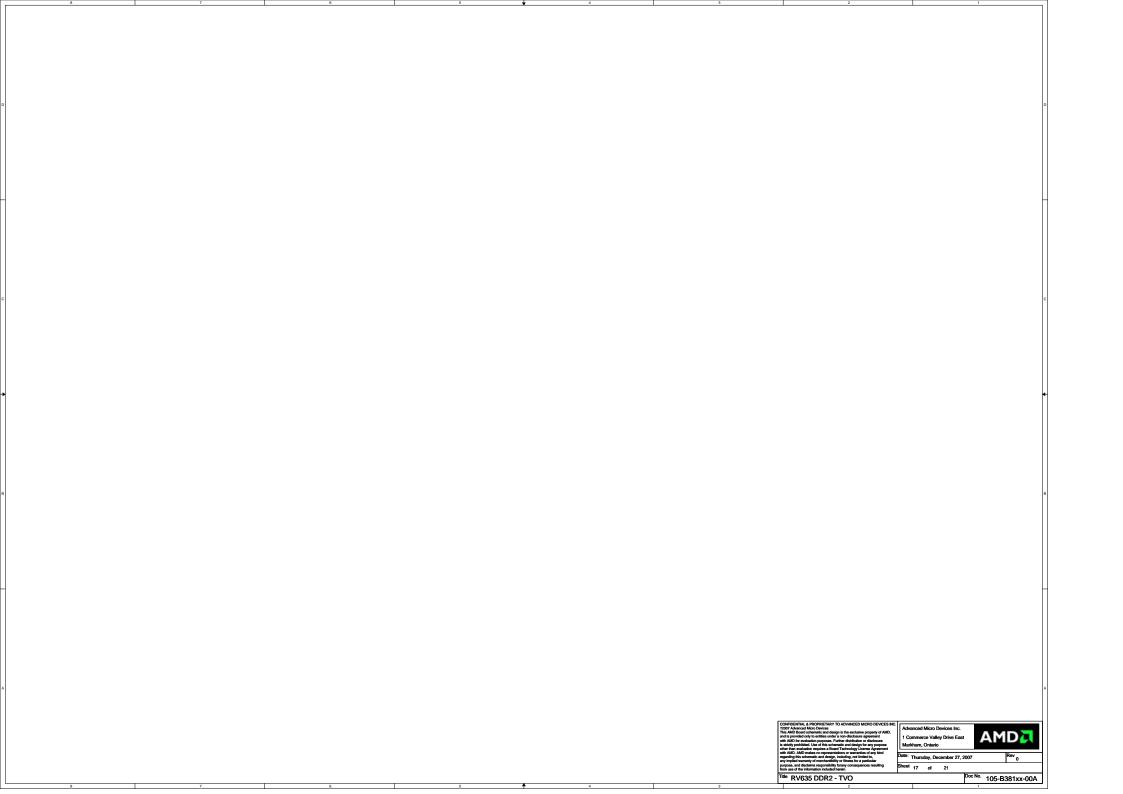
from use of the information included herein.

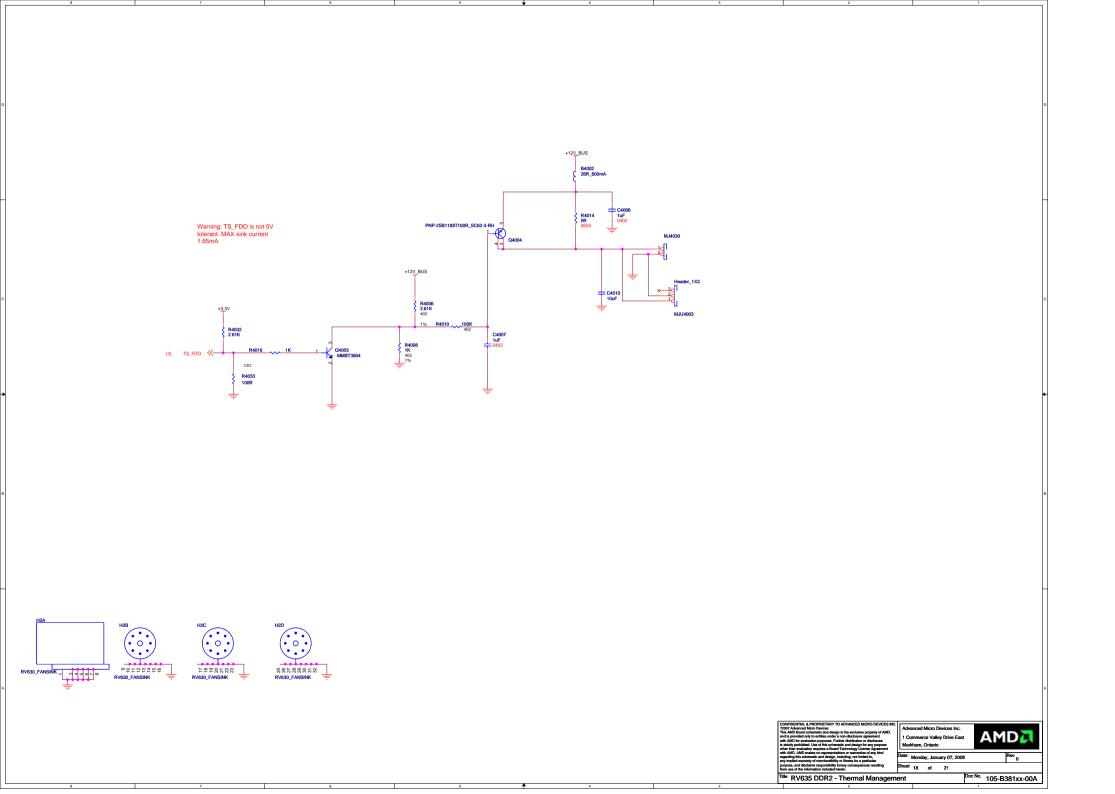
Title RV635 DDR2 - Linear Regulators

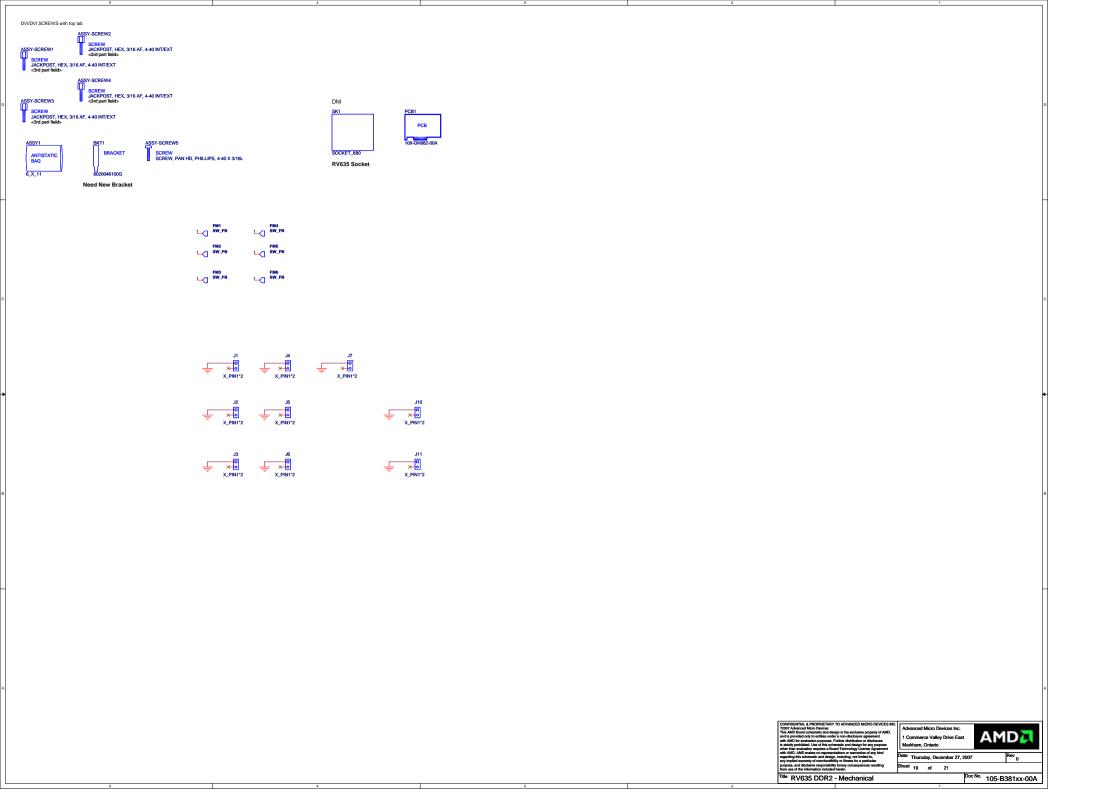
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| AMD | | | Title | | | Schematic No. | Date: | |
| | | | RH PCIE RV635 2x256MB DDR2 DUAL DL-DVI-I DL-DVI-I VO FH | | | 105-B381xx-00A | Thursday, December 27, 2007 | |
| | | | | | | | | |
| | | | REVISION HISTORY | NOTE: This For S Pleas | schematic represents Stuffing options (com se contact AMD repre | s the PCB, it does not represent any specific \$ ponent values, DNI , ? please consult the presentative to obtain latest BOM closest to the a | SKU. oduct specific BOM. application desired. | Rev 0 |
| Sch Rev | PCB Rev | Date | REVISION DESCRIPTION | | | | | |
| 0 | 00A | ??/??/07 | Initial design for RV635 GDDR3 | | | | | |
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