

PCI-EXPRESS EDGE CONNECTOR

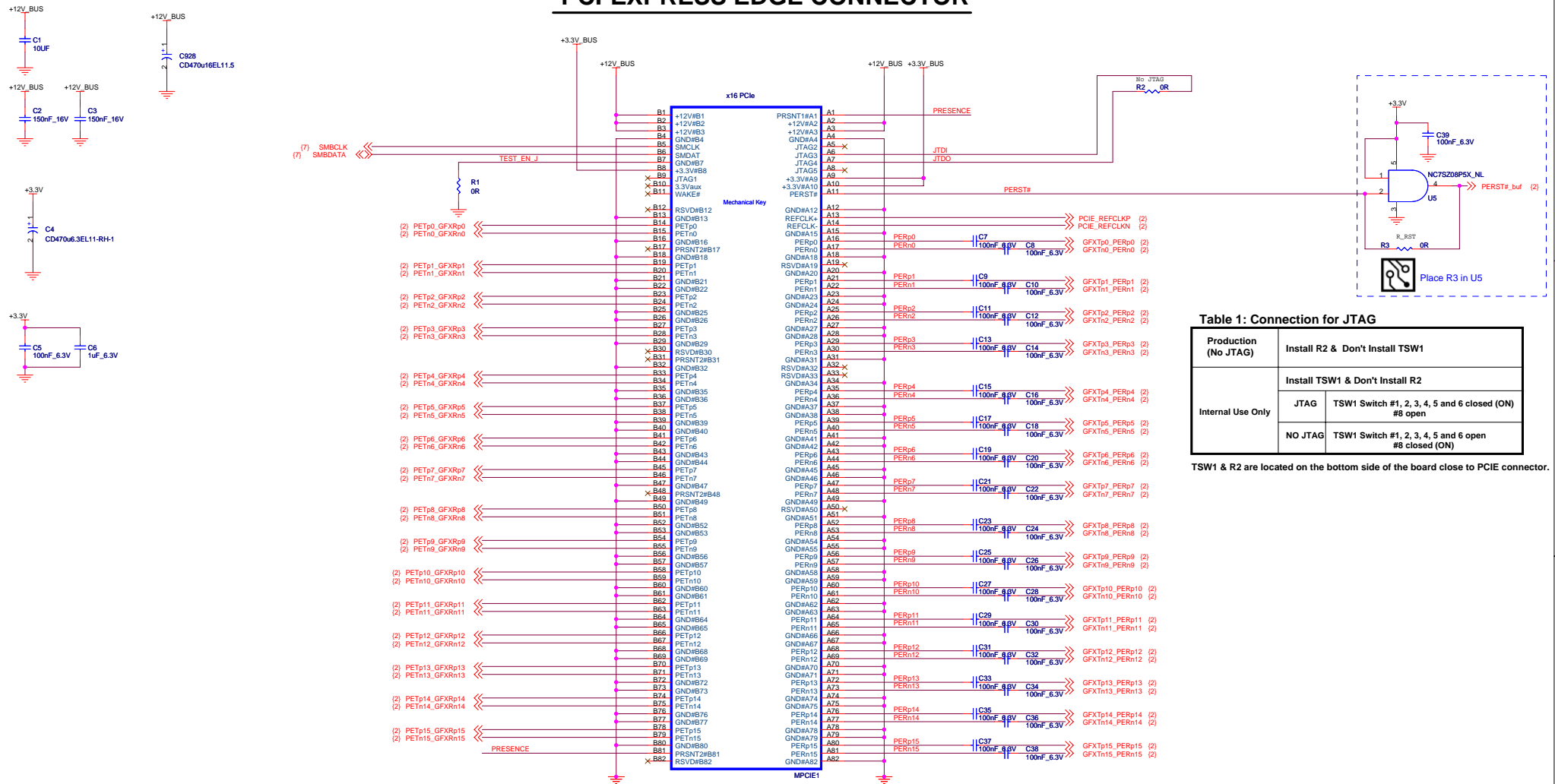




Table 1: Connection for JTAG

Production (No JTAG)	Install R2 & Don't Install TSW1	
Internal Use Only	Install TSW1 & Don't Install R2	
	JTAG	TSW1 Switch #1, 2, 3, 4, 5 and 6 closed (ON) #8 open
	NO JTAG	TSW1 Switch #1, 2, 3, 4, 5 and 6 open #8 closed (ON)

TSW1 & R2 are located on the bottom side of the board close to PCIE connector.

SYMBOL LEGEND	
DNI	DO NOT INSTALL
#	ACTIVE LOW
	DIGITAL GROUND
	ANALOG GROUND
BUO	BRING UP ONLY

CONFIDENTIAL & PROPRIETARY TO ADVANCED MICRO DEVICES INC.
72007 Advanced Micro Devices

This AMD Board schematic and design is the exclusive property of AMD, and is provided only to entities under a non-disclosure agreement with AMD for evaluation purposes. Further distribution or disclosure is strictly prohibited. Use of this schematic and design for any purpose other than evaluation requires a Board Technology License Agreement with AMD. AMD makes no representations or warranties of any kind regarding this schematic and design, including, not limited to, any implied warranty of merchantability or fitness for a particular

INC.	Advanced Micro Devices Inc. 1 Commerce Valley Drive East Markham, Ontario
------	---



Date: Wednesday, March 26, 2008

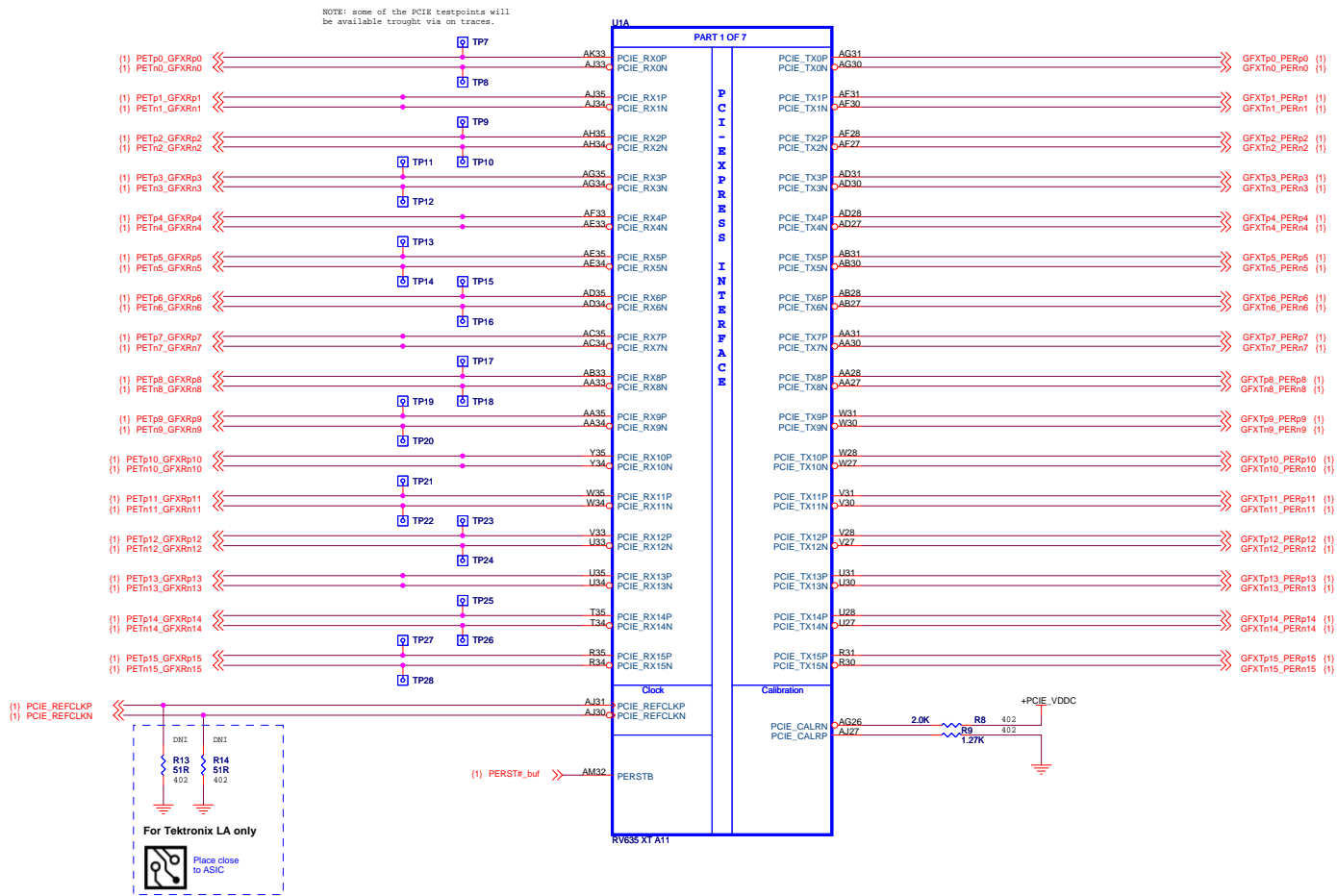
Rev 1

Sheet 1 of 21

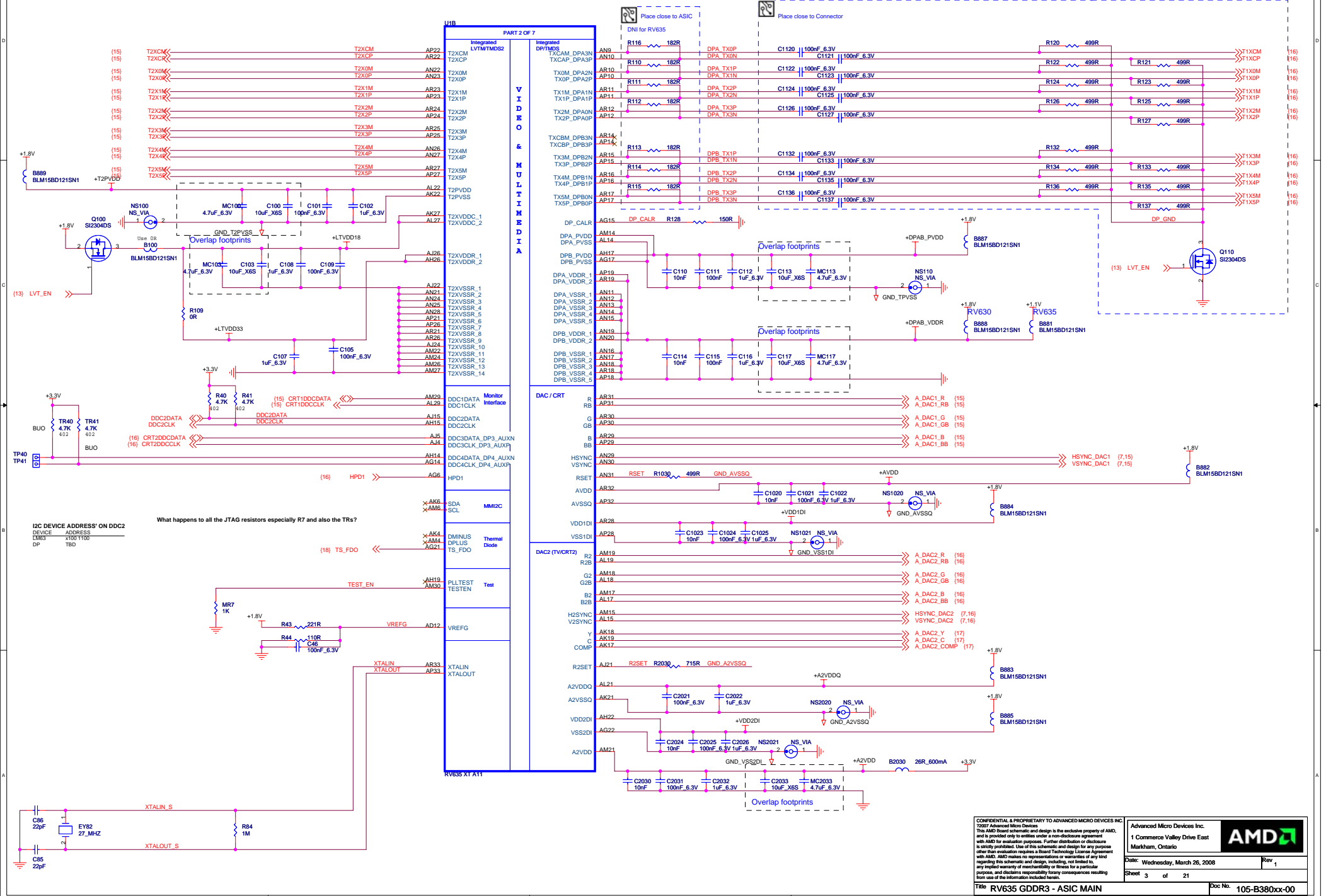
21

Title	RV635 GDDR3 - PCI-E Edge Connector
-------	------------------------------------

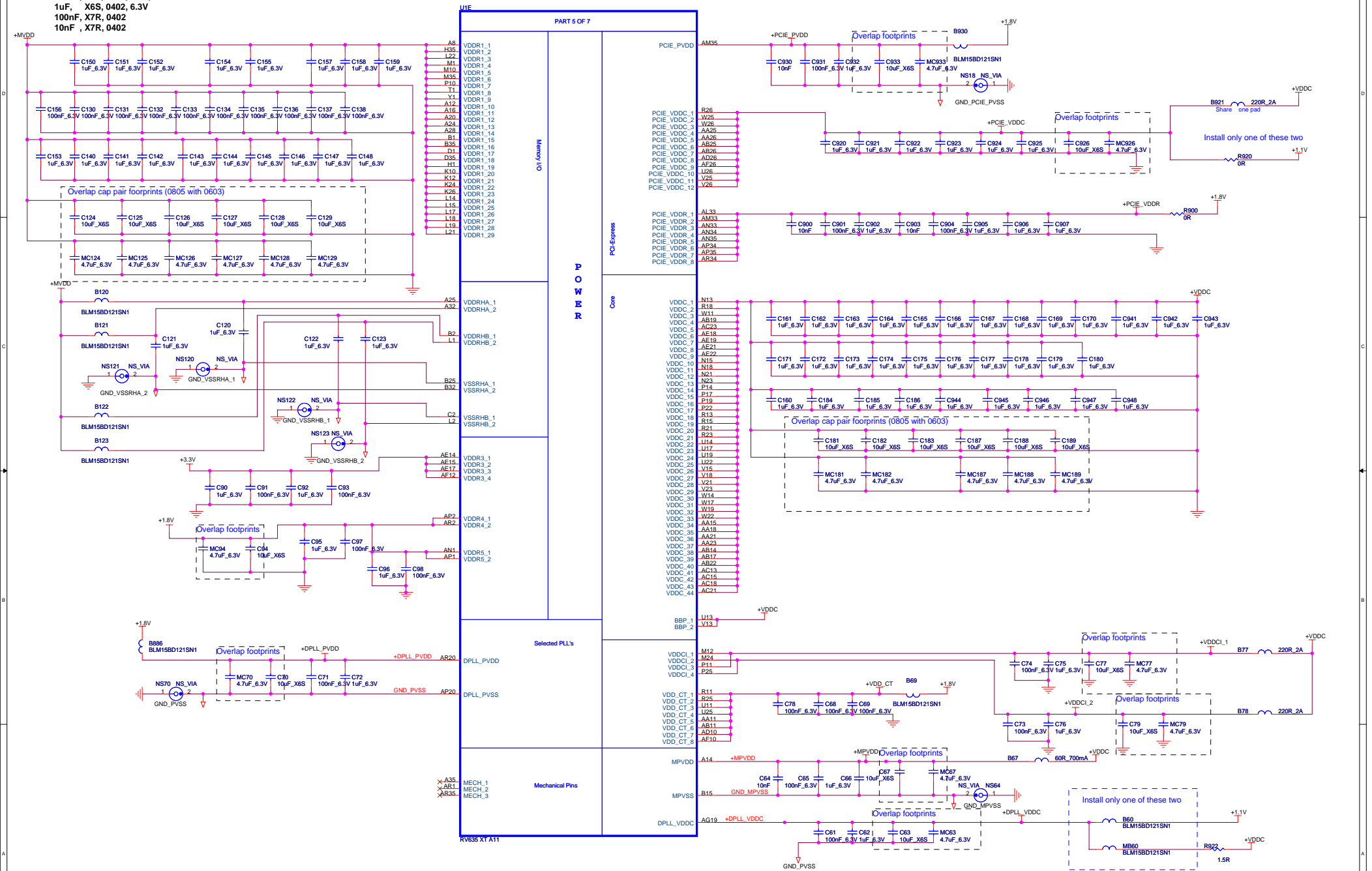
Doc No. 105-B380xx-00

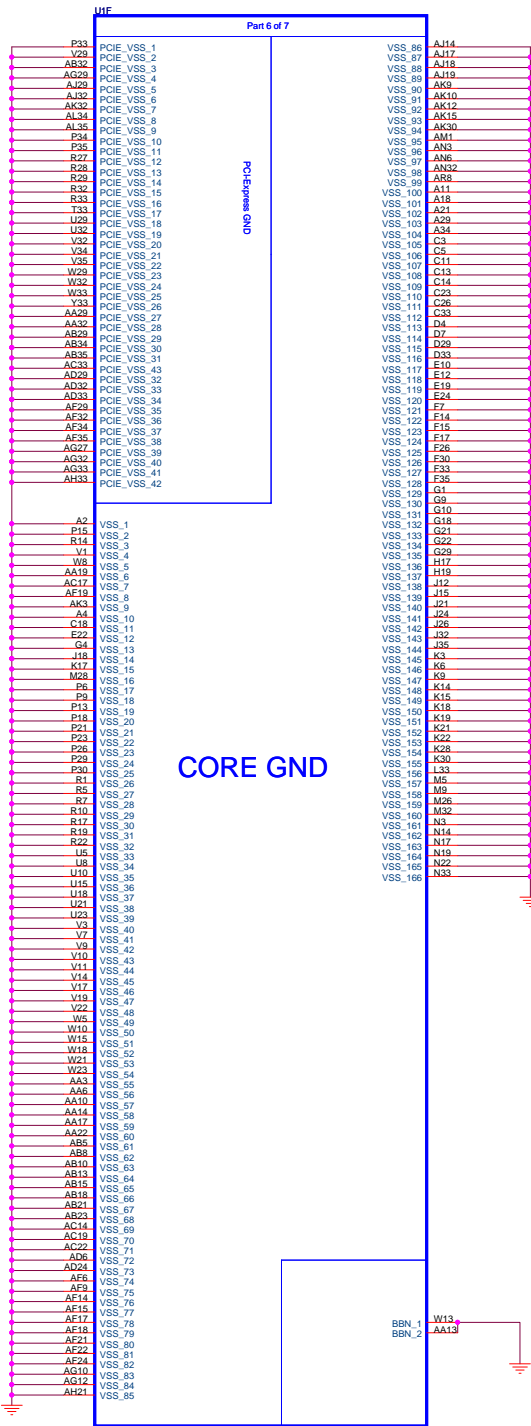


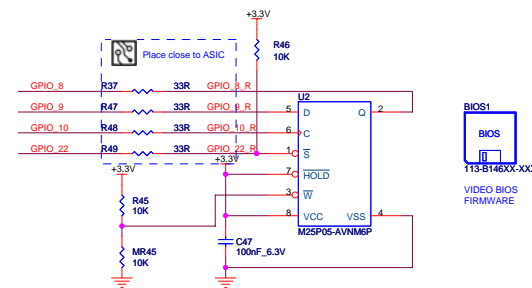
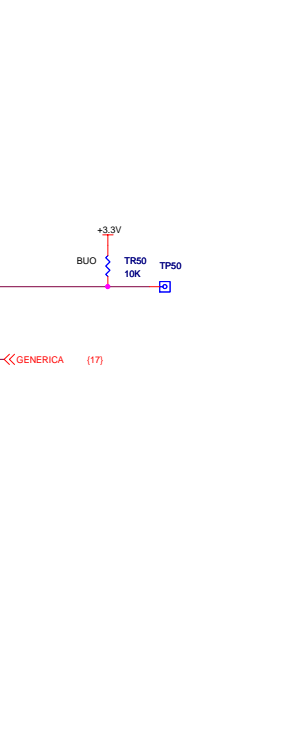
Recommended caps:
(see BOM for qualified values/vendors)
10uF , X6S, 0805, 6.3V, 1.4MM MAX THICK
1uF , X6S, 0402, 6.3V
100nF, X7R, 0402
10nF , X7R, 0402



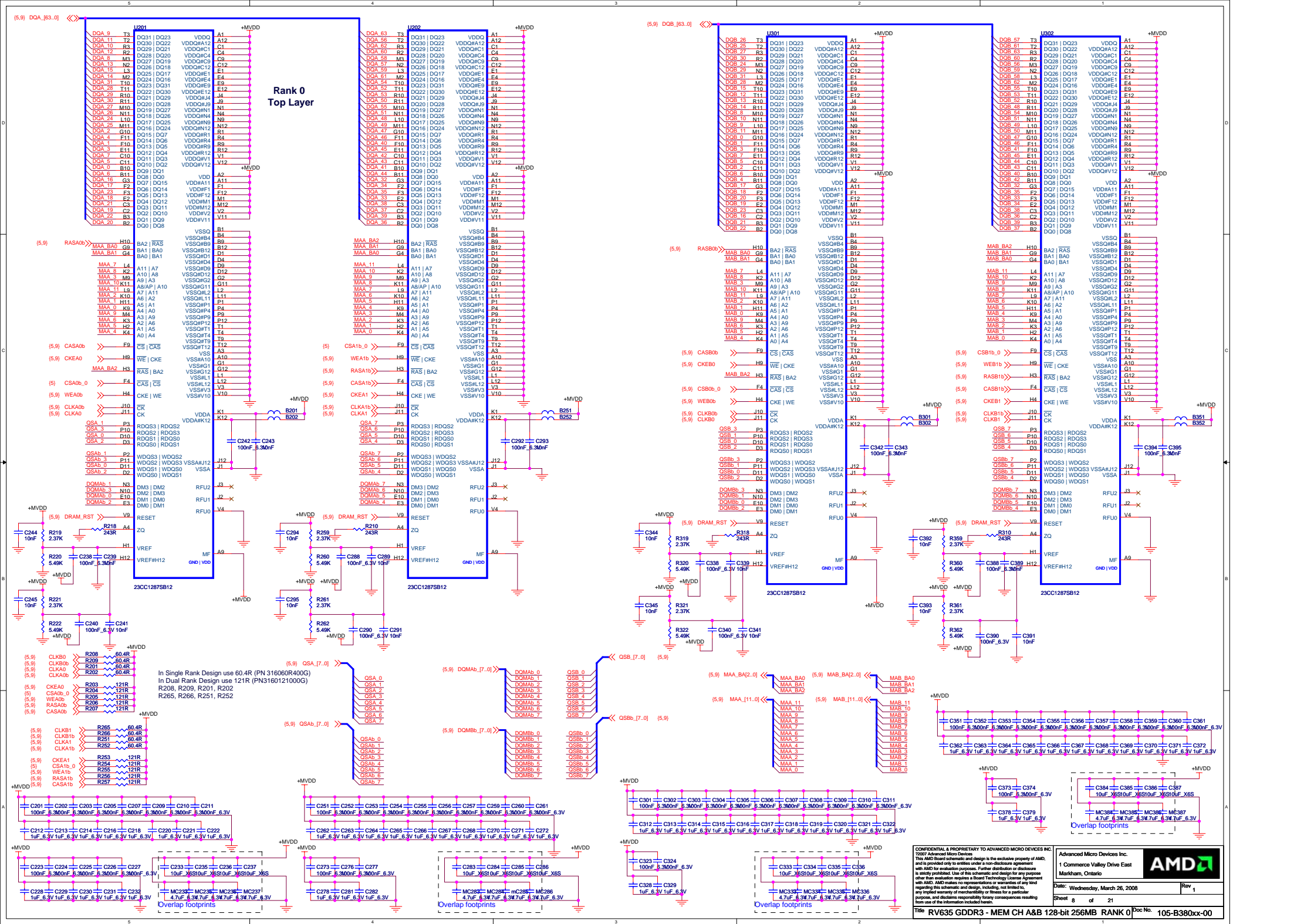
Recommended caps:
(see BOM for qualified values/vendors)
10uF , X6S, 0805, 6.3V, 1.4MM MAX THICK
1uF, X6S, 0402, 6.3V
100nF, X7R, 0402
10nF , X7R, 0402

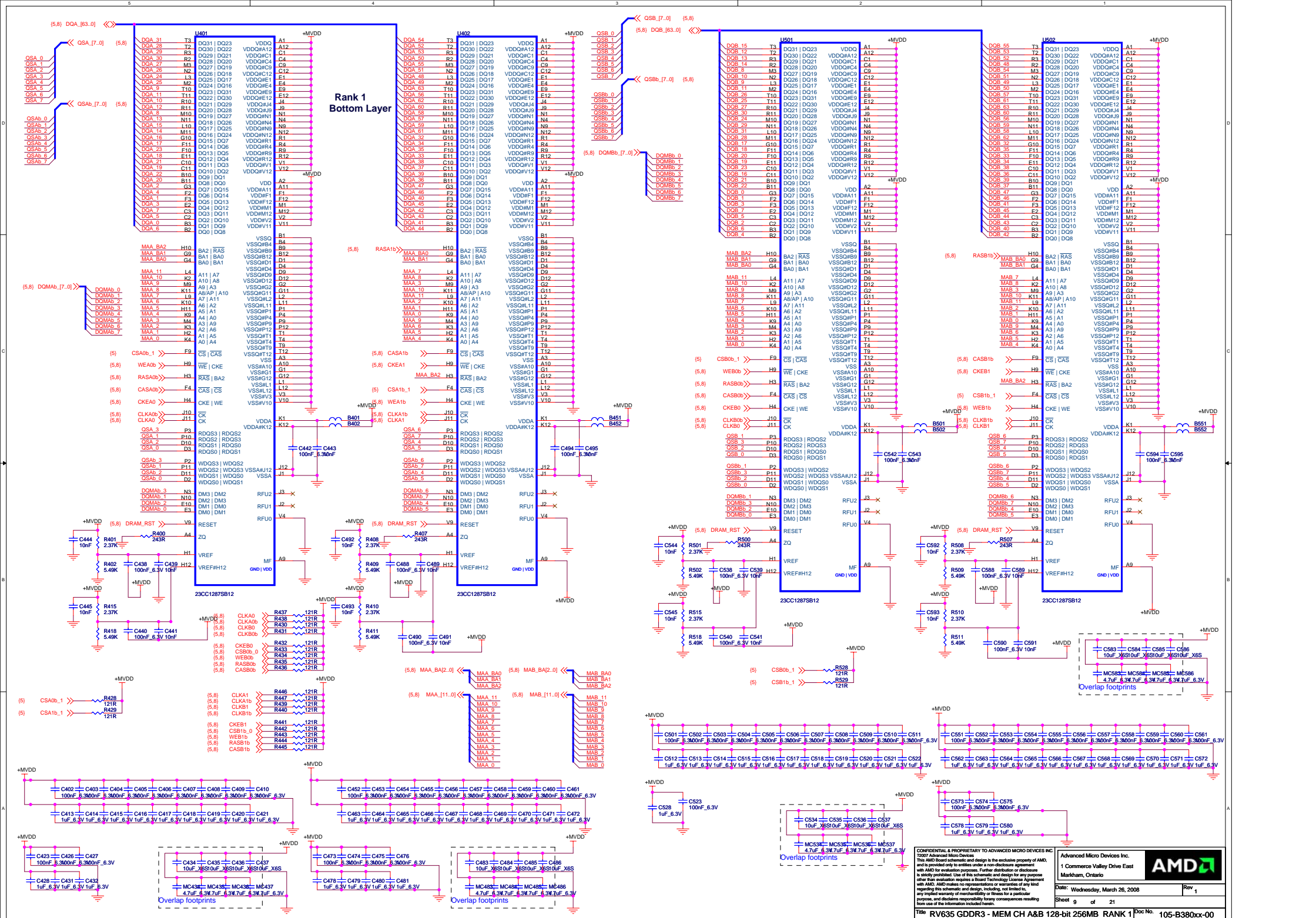




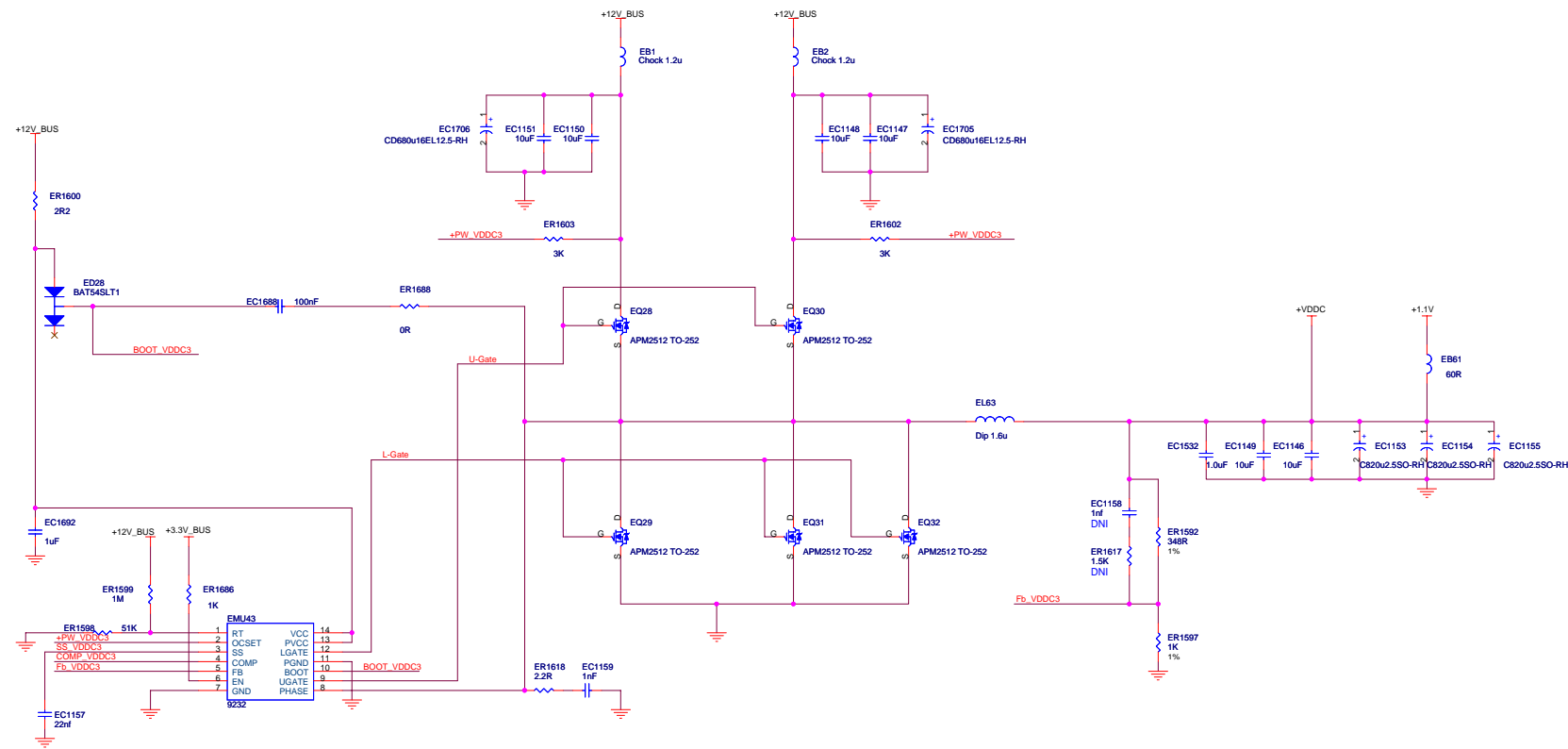


<p>CONFIDENTIAL & PROPRIETARY TO ADVANCED MICRO DEVICES INC. 12027 Advanced Micro Devices This AMD Board schematic and design is the exclusive property of AMD, and is provided only to entities under a non-disclosure agreement. This AMD Board schematic and design is the property of AMD, and is not to be reproduced, copied, or otherwise used in any manner without the prior written consent of AMD. Any unauthorized use of this AMD Board schematic and design is strictly prohibited. Use of the schematic and design for any purpose other than evaluation requires a Board Technology License Agreement with AMD. AMD makes no representations or warranties of any kind regarding this schematic and design, including, but not limited to, accuracy, completeness, or suitability for any purpose. AMD makes no representations or warranties of any kind regarding any implied warranty of merchantability or fitness for a particular purpose, or of the accuracy, completeness, or suitability of any information used in the design of the board.</p>	<p>Advanced Micro Devices Inc. 1 Commerce Valley Drive East Markham, Ontario L3R 9V7</p> <p>MD</p>
<p>Title RV635 GDDR3 - ASIC DDO & GPIOs</p>	<p>Date: Wednesday, March 26, 2008 Rev 1 Sheet 7 of 21 Doc No. 105-B380bx-00</p>

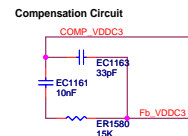


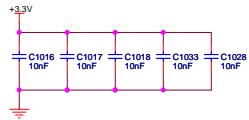
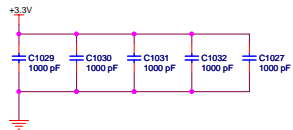
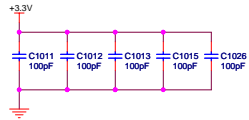
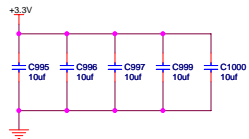


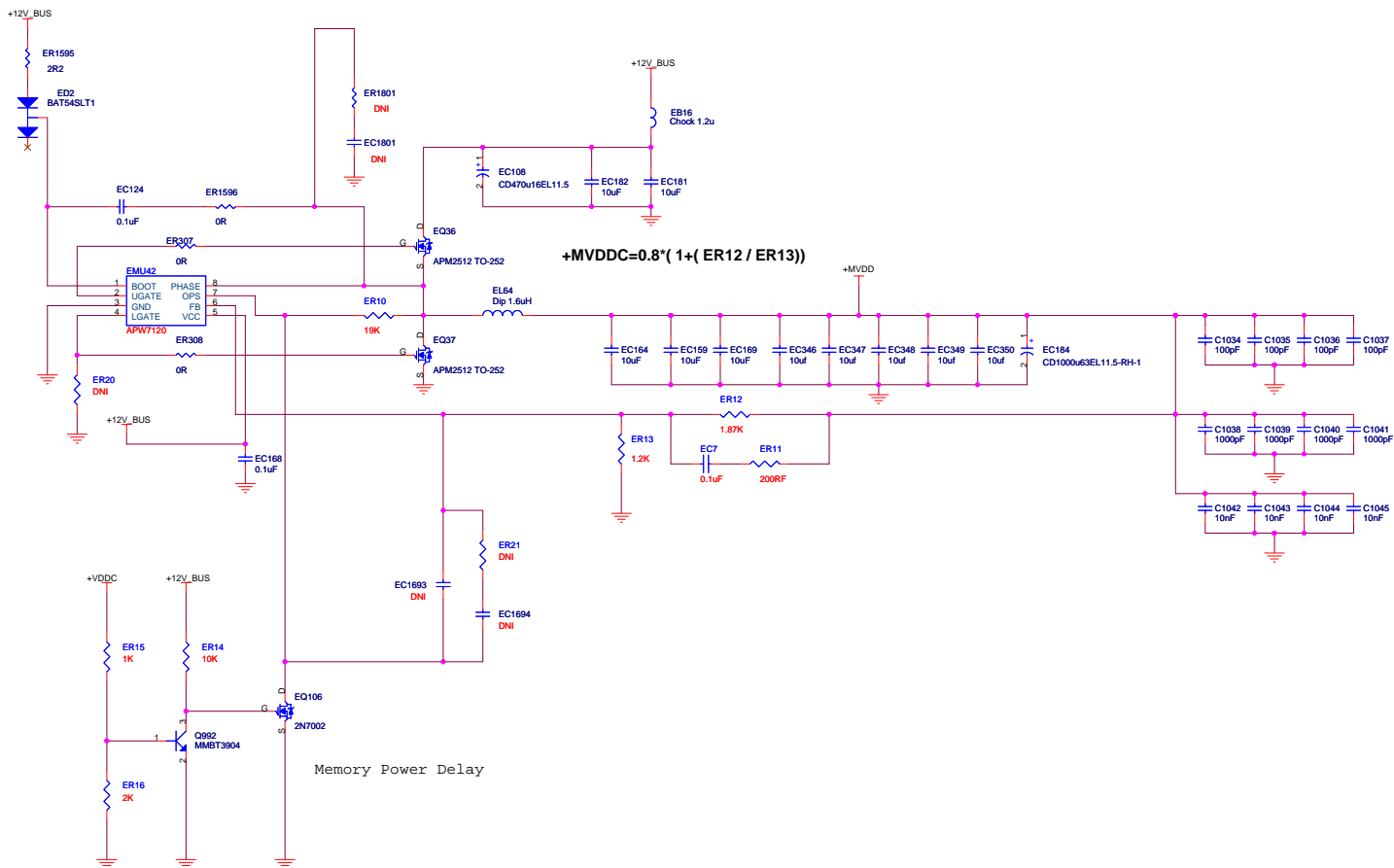
CORE REGULATOR VDDC



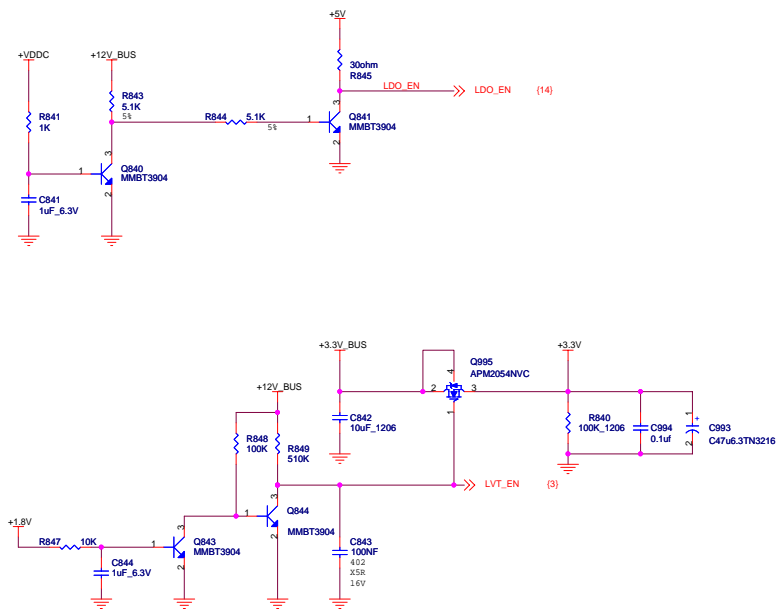
$$+VDDC=0.8*(1+(ER1592/ER1597))$$







Power up Sequencing



CONFIDENTIAL & PROPRIETARY TO ADVANCED MICRO DEVICES INC.
 72037 Advanced Micro Devices
 This AMD Board schematic and design is the exclusive property of AMD, and is provided only to entities under a non-disclosure agreement with AMD for evaluation purposes. Further distribution or disclosure is strictly prohibited. Use of this schematic and design for any purpose other than evaluation requires a Board Technology License Agreement with AMD. AMD makes no representations or warranties of any kind regarding this schematic and design, including, not limited to, any implied warranty of merchantability or fitness for a particular purpose, and disclaims responsibility for any consequences resulting from use of the information included herein.

Advanced Micro Devices Inc.
 1 Commerce Valley Drive East
 Markham, Ontario



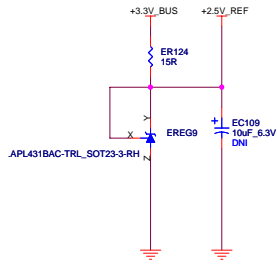
Date: Wednesday, March 26, 2008

Rev 1

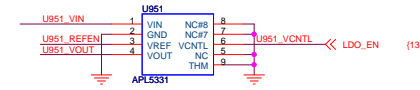
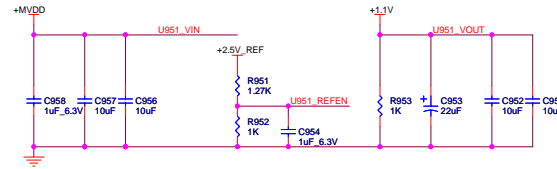
Sheet 13 of 21

Title RV635 GDDR3 - Power Management

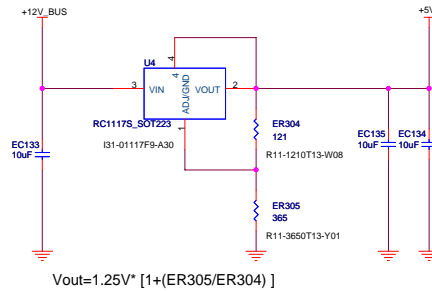
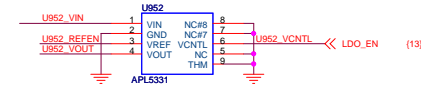
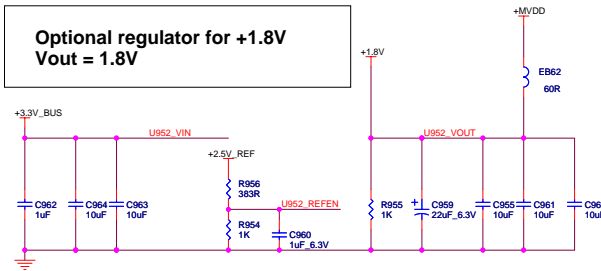
Doc No. 105-B380xx-00

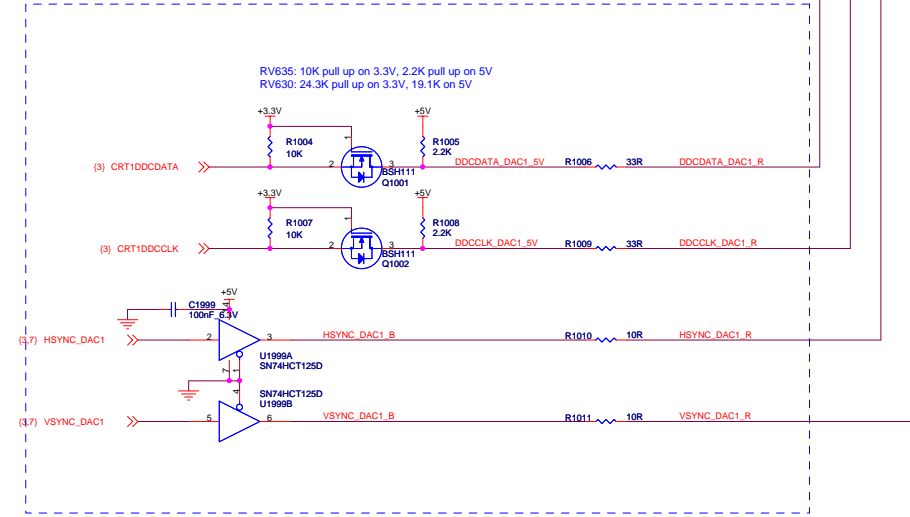
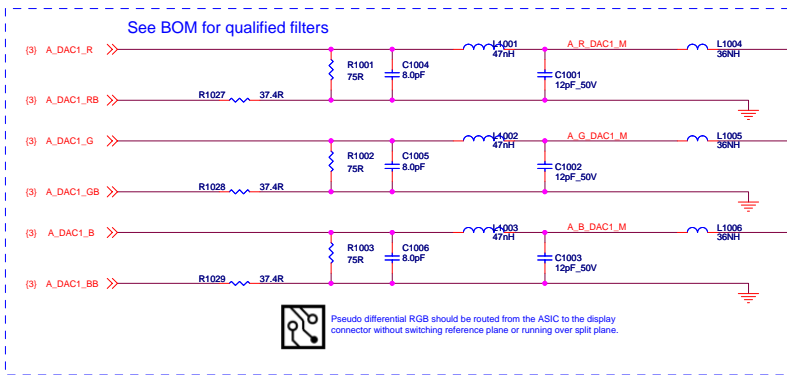


Optional regulator for +1.1V Vout = 1.1V

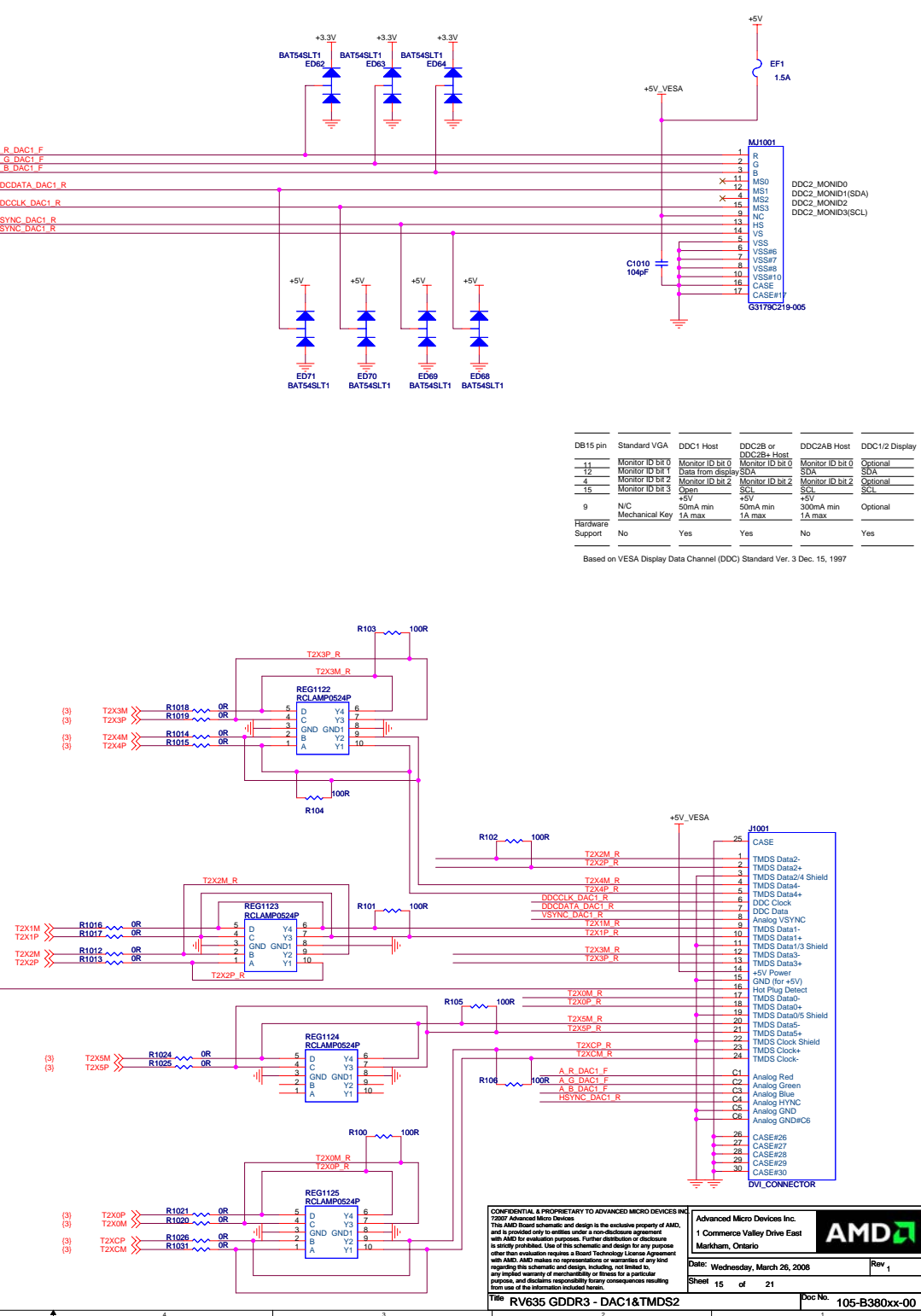
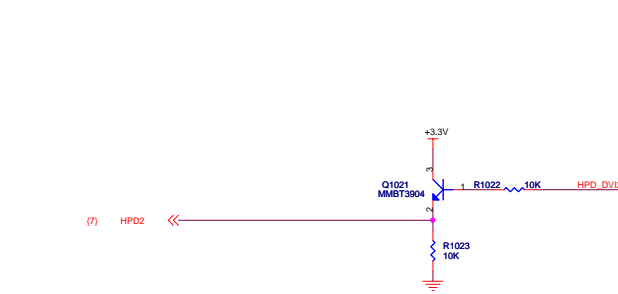


Optional regulator for +1.8V Vout = 1.8V



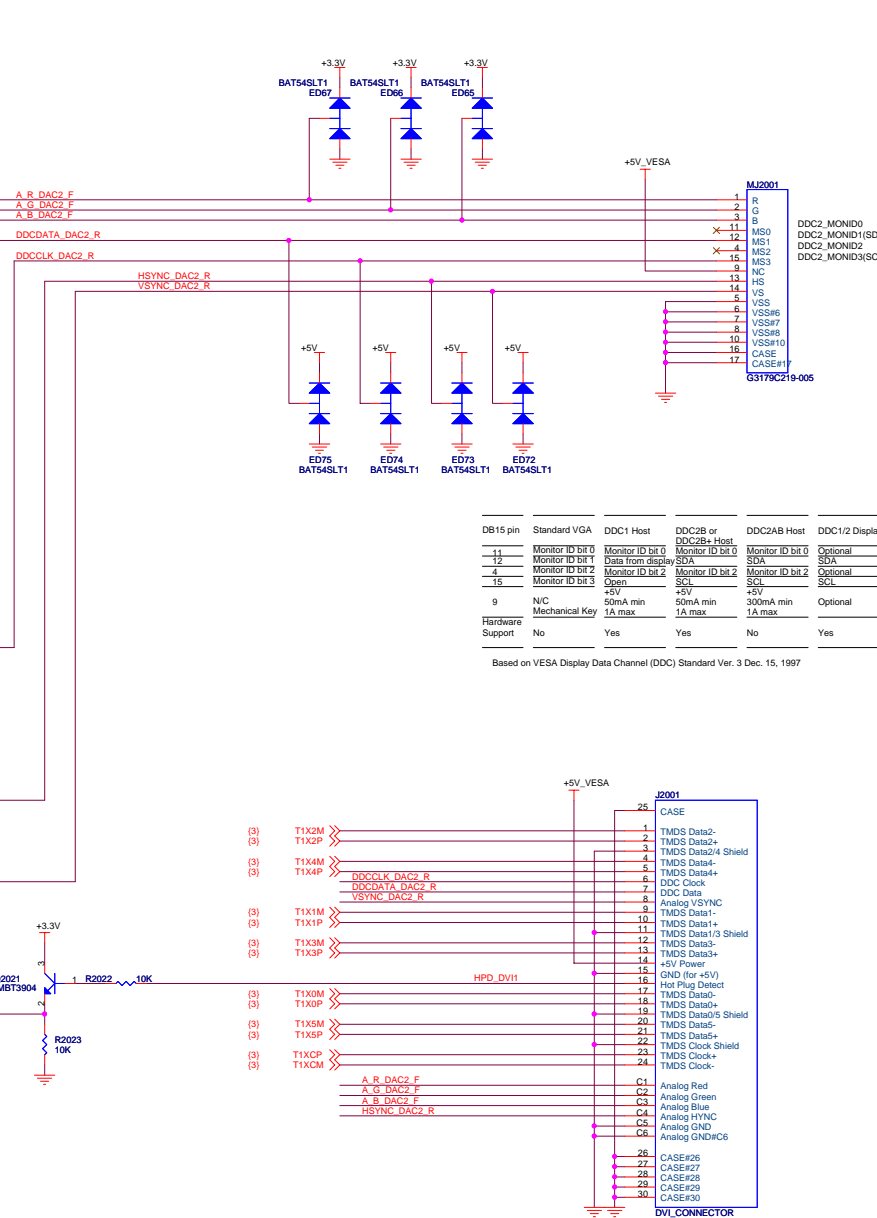
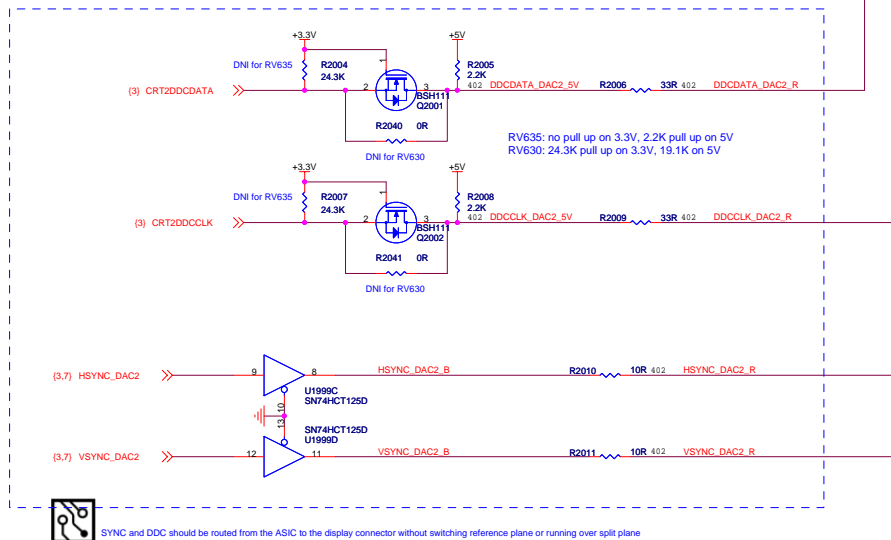
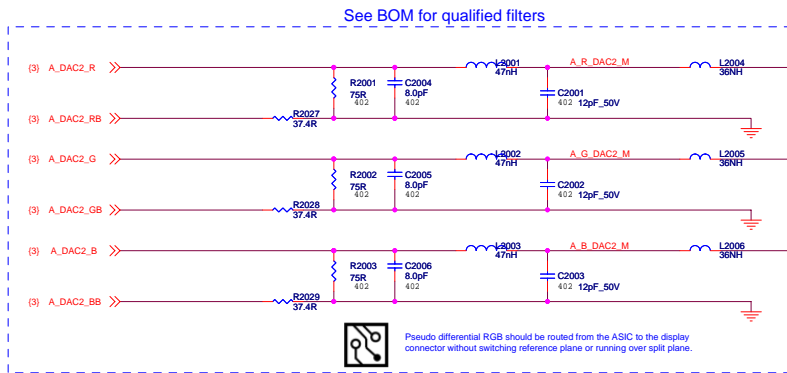


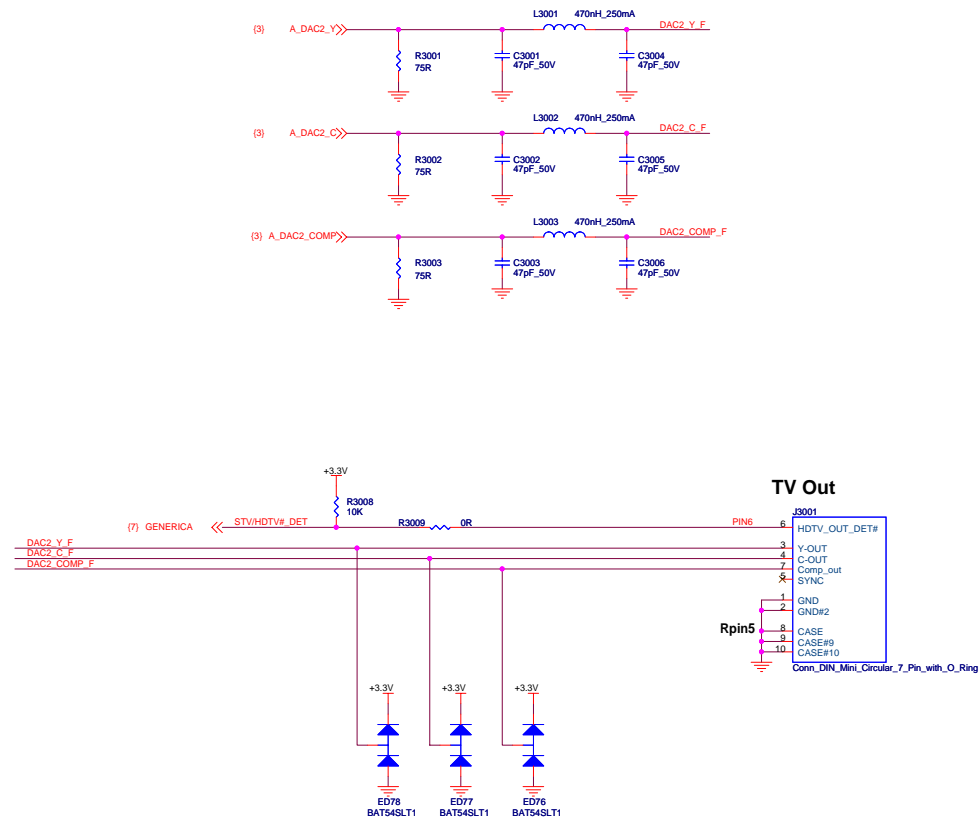
SYNC and DDC should be routed from the ASIC to the display connector without switching reference plane or running over split plane



DB15 pin	Standard VGA	DDC1 Host	DDC2B or DDC2B Host	DDC2AB Host	DDC1/2 Display
11	Monitor ID bit 0	Monitor ID bit 0	Monitor ID bit 0	Monitor ID bit 0	Optional
12	Monitor ID bit 1	Monitor ID bit 1	Monitor ID bit 1	Monitor ID bit 1	Optional
13	Monitor ID bit 2	Monitor ID bit 2	Monitor ID bit 2	Monitor ID bit 2	Optional
14	Monitor ID bit 3	Open	Open	Open	Optional
15	Monitor ID bit 4	Open	Open	Open	Optional
16	N/C	+5V	+5V	+5V	Optional
17	Mechanical Key	50mA min 1A max	50mA min 1A max	50mA min 1A max	Optional
Support	No	Yes	Yes	No	Yes

Based on VESA Display Data Channel (DDC) Standard Ver. 3 Dec. 15, 1997



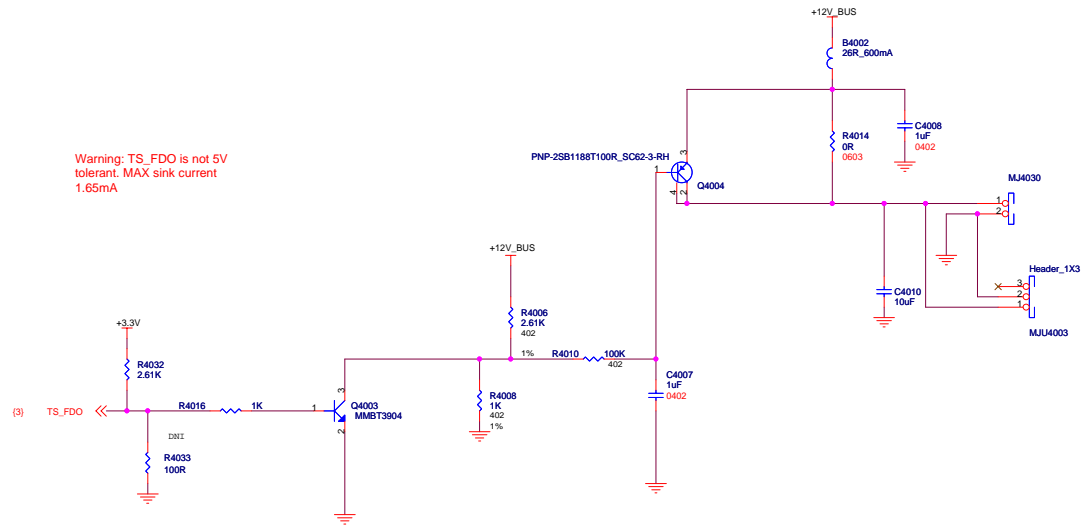


CONFIDENTIAL & PROPRIETARY TO ADVANCED MICRO DEVICES INC.
 72037 Advanced Micro Devices
 This AMD Board schematic and design is the exclusive property of AMD, and is provided only to entities under a non-disclosure agreement with AMD for evaluation purposes. Further distribution or disclosure is strictly prohibited. Use of this schematic and design for any purpose other than evaluation requires a Board Technology License Agreement with AMD. AMD makes no representations or warranties of any kind regarding this schematic and design, including, not limited to, any implied warranty of merchantability or fitness for a particular purpose, and disclaims responsibility for any consequences resulting from use of the information included herein.

Advanced Micro Devices Inc.
 1 Commerce Valley Drive East
 Markham, Ontario

Date: Wednesday, March 26, 2008 Rev 1
 Sheet 17 of 21





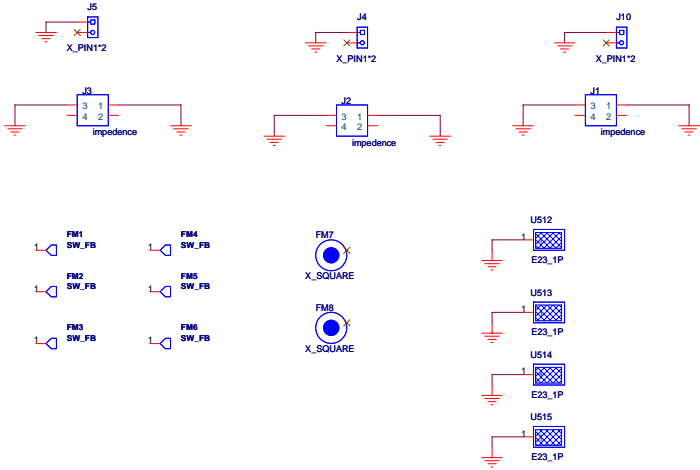
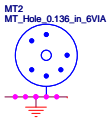
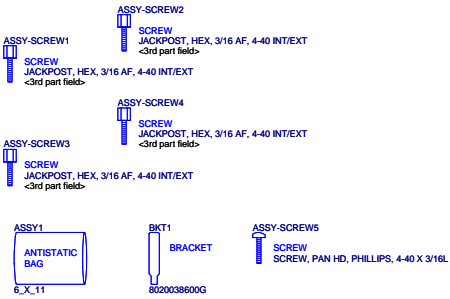
CONFIDENTIAL & PROPRIETARY TO ADVANCED MICRO DEVICES INC.
 72037 Advanced Micro Devices
 This AMD Board schematic and design is the exclusive property of AMD, and is provided only to entities under a non-disclosure agreement with AMD for evaluation purposes. Further distribution or disclosure is strictly prohibited. Use of this schematic and design for any purpose other than evaluation requires a Board Technology License Agreement with AMD. AMD makes no representations or warranties of any kind regarding this schematic and design, including, not limited to, any implied warranty of merchantability or fitness for a particular purpose, and disclaims responsibility for any consequences resulting from use of the information included herein.

Advanced Micro Devices Inc.
 1 Commerce Valley Drive East
 Markham, Ontario

Date: Wednesday, March 26, 2008 Rev 1
 Sheet 18 of 21



DVI/DVI SCREWS with top tab



5

4

3

2

1

AMD

Title

RH PCIE RV635 2x256MB GDDR3 DUAL DL-DVI-I DL-DVI-I VO FH

Schematic No.

105-B380xx-00

Date:

Wednesday, March 26, 2008

REVISION HISTORY

NOTE: This schematic represents the PCB, it does not represent any specific SKU.
For Stuffing options (component values, DNI , ? please consult the product specific BOM.
Please contact AMD representative to obtain latest BOM closest to the application desired.

Rev 1

Sch Rev

PCB Rev

Date

REVISION DESCRIPTION

0

00A

07/13/07

Initial design for RV635 GDDR3

1

00

10/25/07

Release To Rev 00

5

4

3

2

1

A

B

C

D

