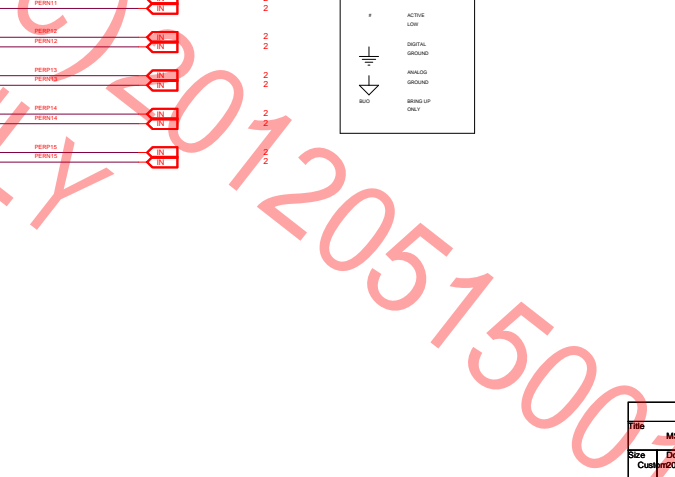
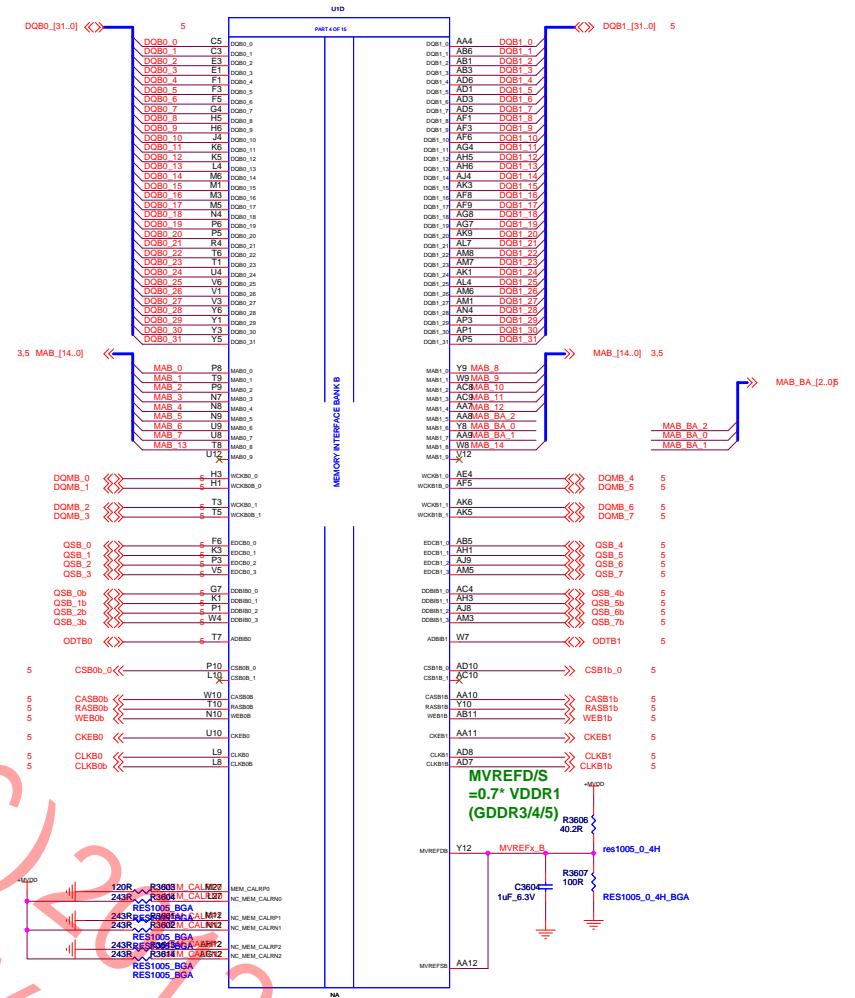


[illegible]

Title			
MS-V279-4.0 (AMD C445 qual. DDR3)			
Size	Document Number		Rev
Customer	2012-03-01-01		01
Date:	Wednesday, April 18, 2012	Sheet	1 of 21

NOTE: Some of the PCIE testpoints will be available through vias on traces.

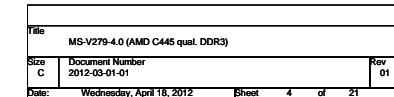




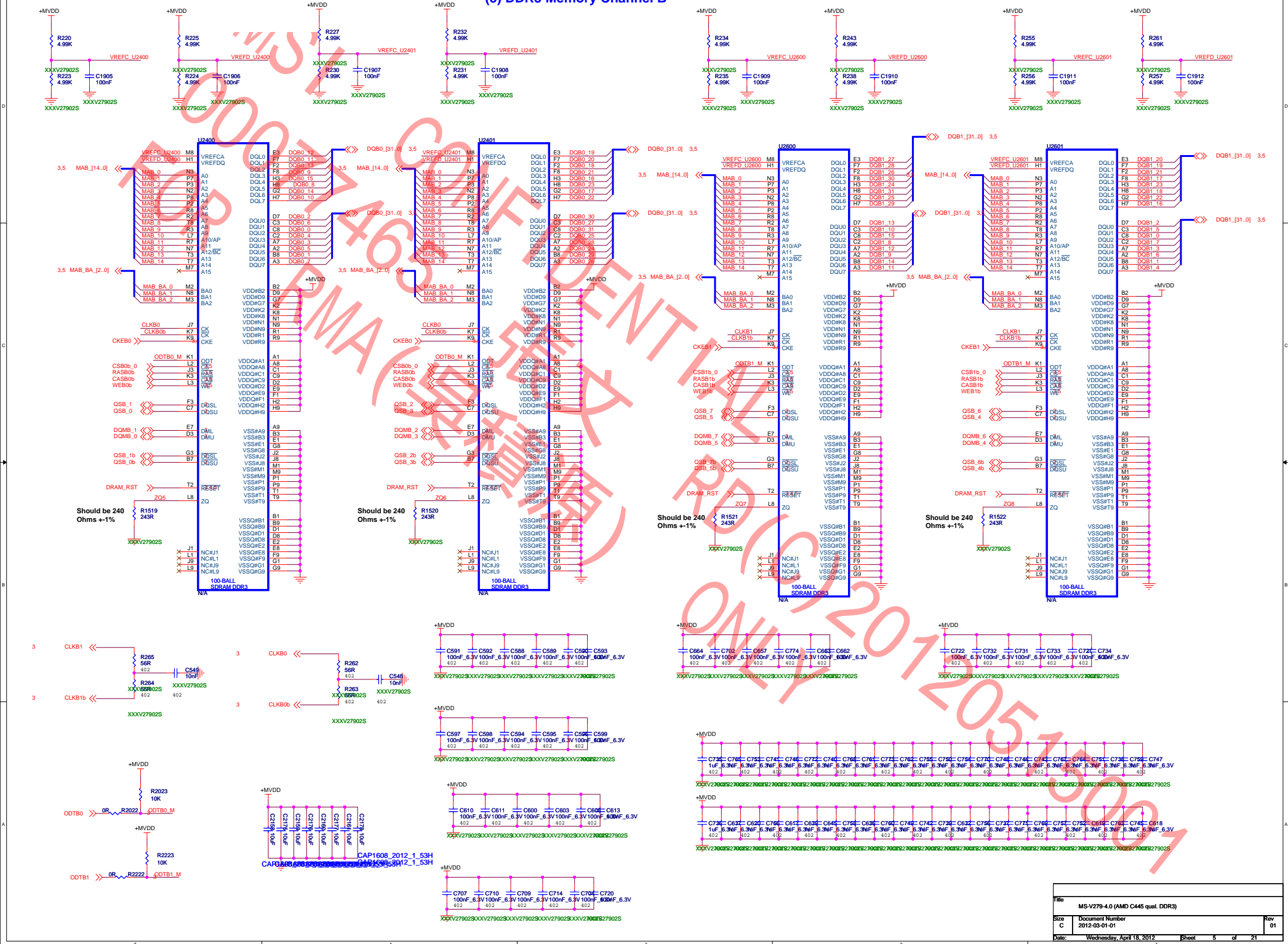
## Stitching Caps:

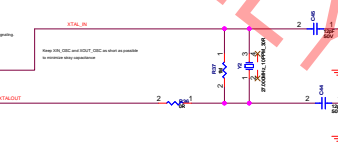
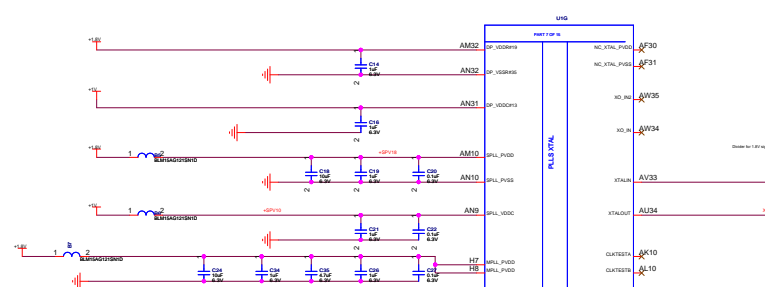
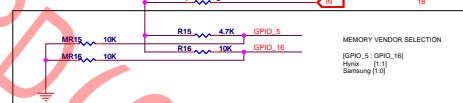
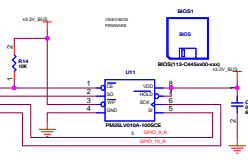
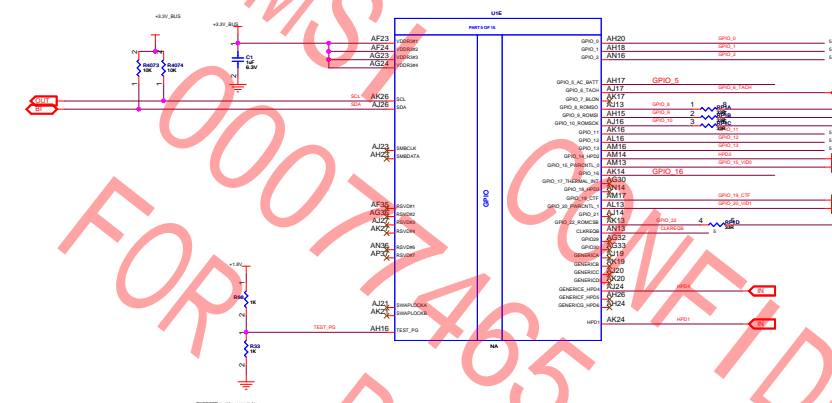


## MAX DENSITY: 128Mx16



### (5) DDR3 Memory Channel B

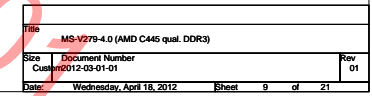


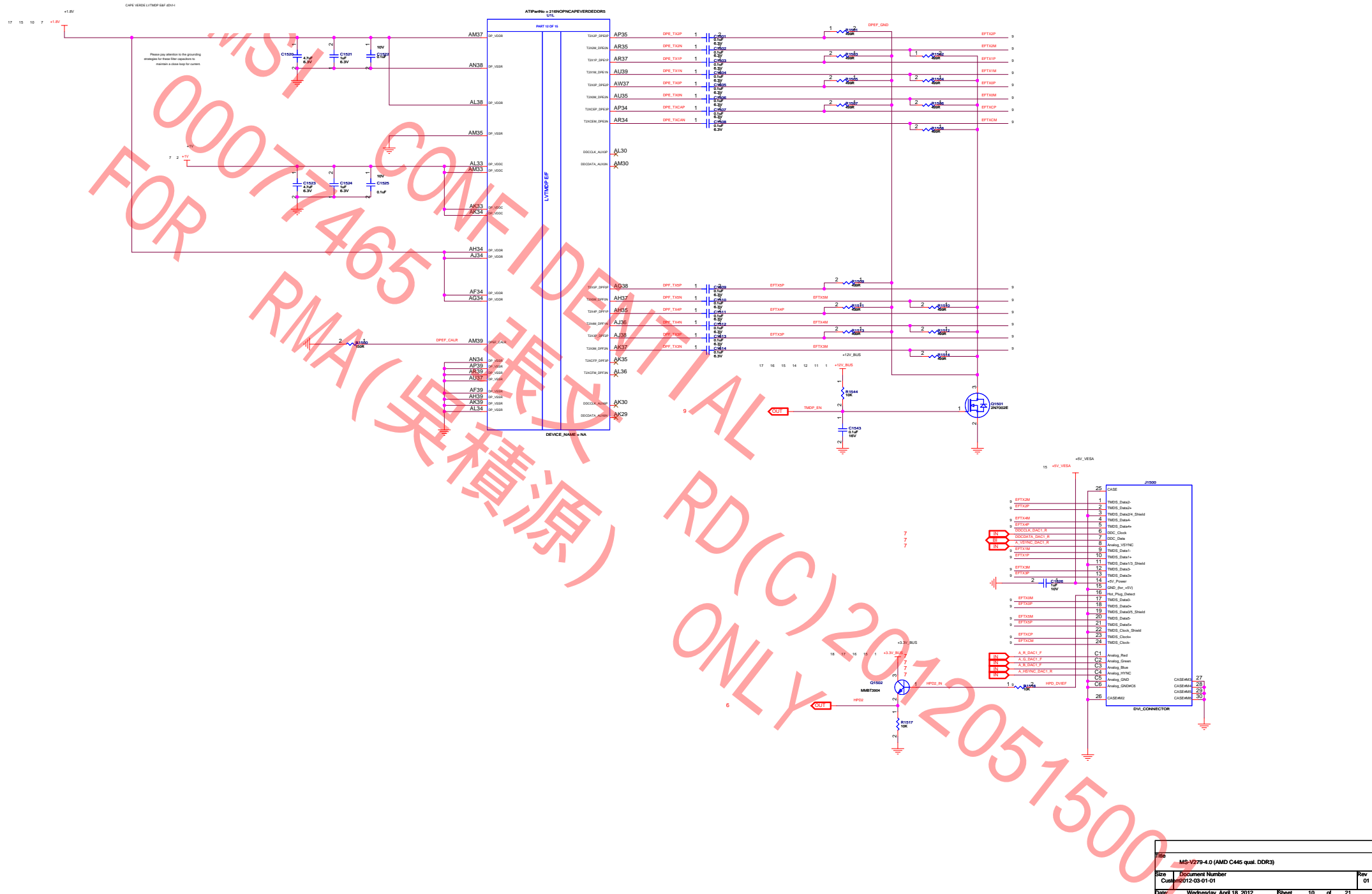




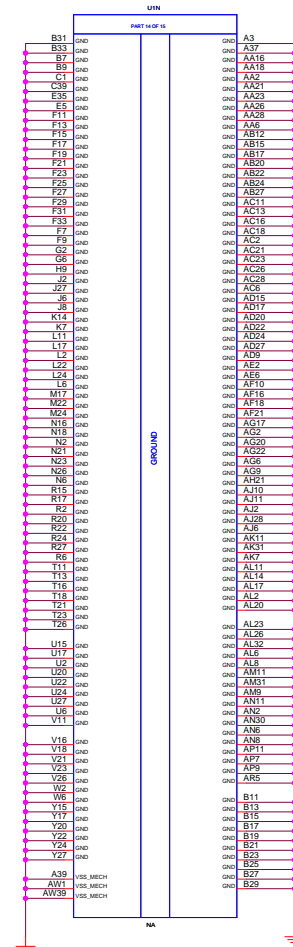
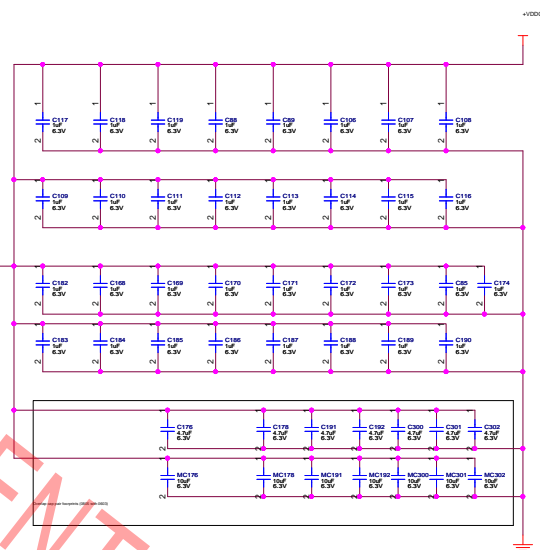
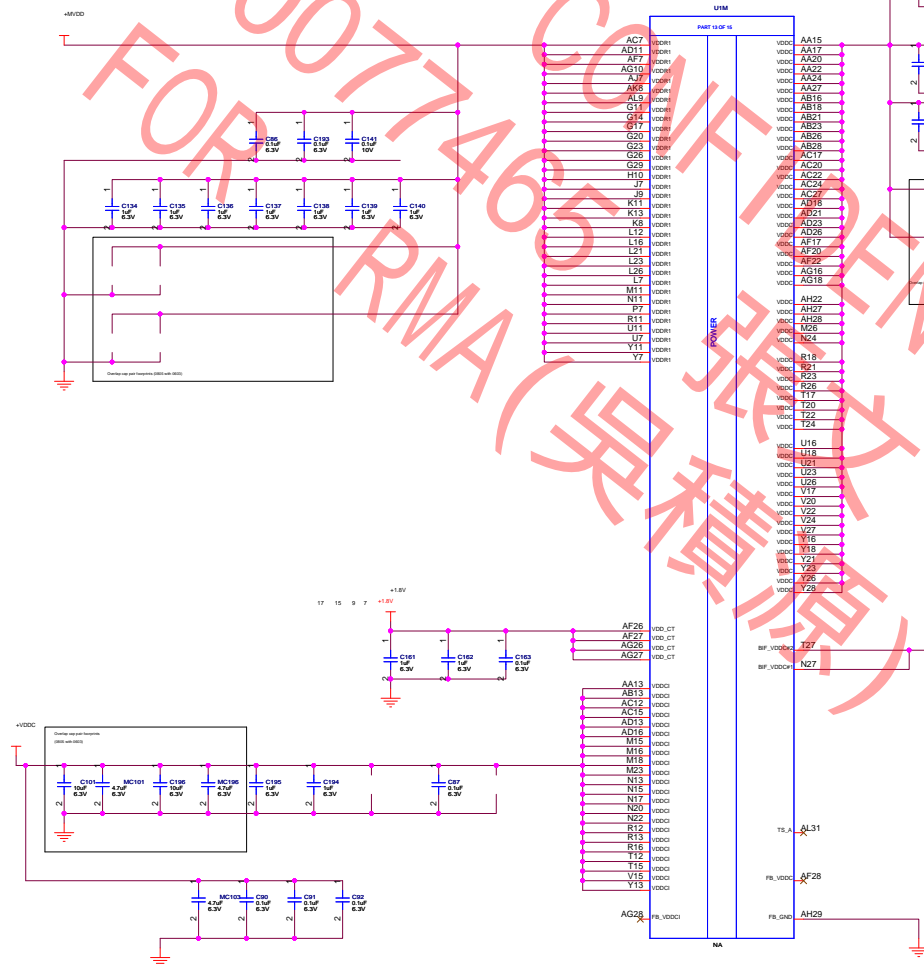








## CAPE VERDE Power & GND





00077403 CONFIDENTIAL (RMA) (吳寶源) ONLY 20120515001

Pass transistor circuit Q801 and R801 for RV Gate Drive

This circuit is only for RV gate drive circuit application.  
Assume VCC consumes 200mA and including VDDC providing  
sufficient input source is sufficient input requirement

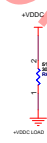
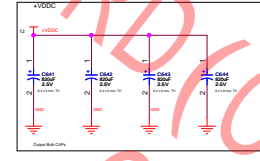
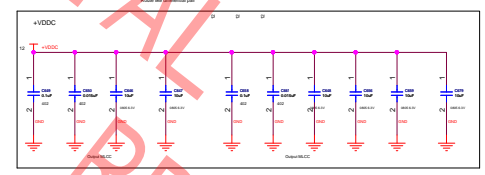
$V_{DDC\_Source} = 12V \times V_{CC} / (V_{CC} - V_{DS})$

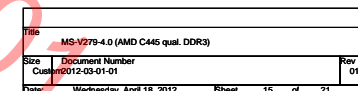
Pin 1 and 2 are  
HE PIN (DRAINABLE PIN) ENABLED.  
G1, PH1 and PH2 ENABLED.

Close to U801

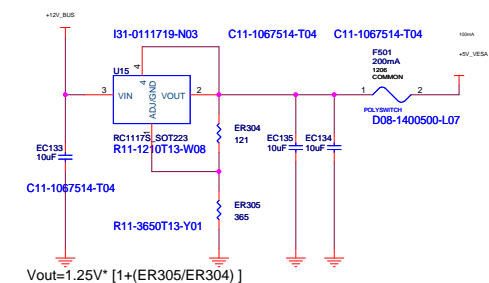
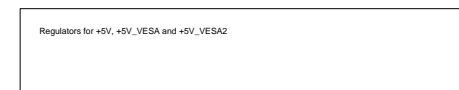
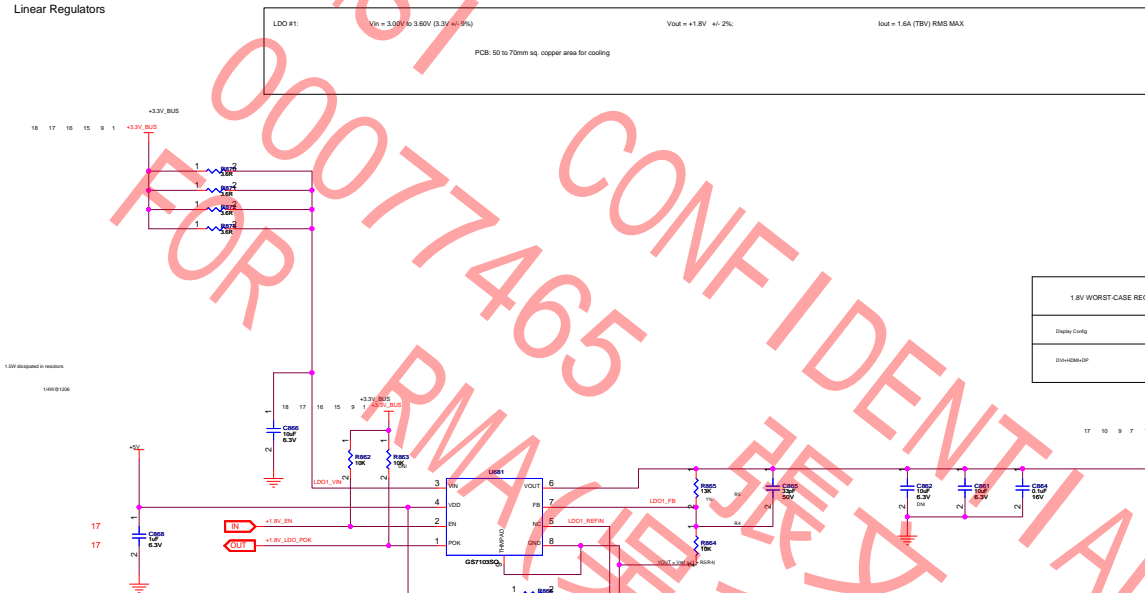
### Choosing Different Gate Drive

- RV Gate Drive  
Populate R801, R802 and C801, Not Populate R803, R804, R805, R806
- RV Gate Drive  
Populate R801, R802, R803, R804, R805, R806, and C801
- 12V Gate Drive  
Populate R801, R802, R803, R804, R805, R806, and C801



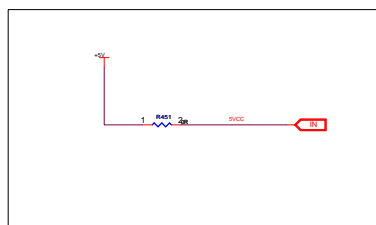


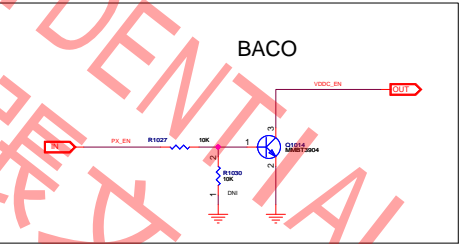
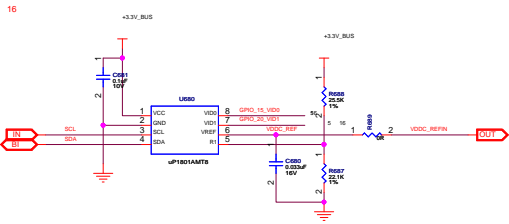
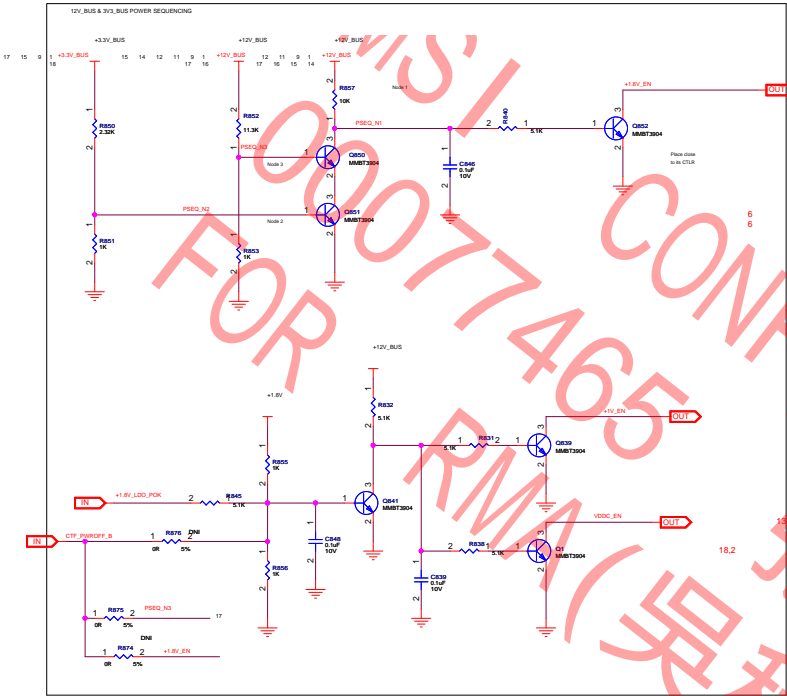
## Linear Regulators



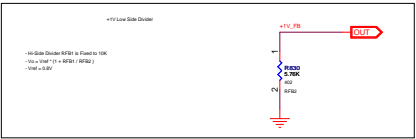
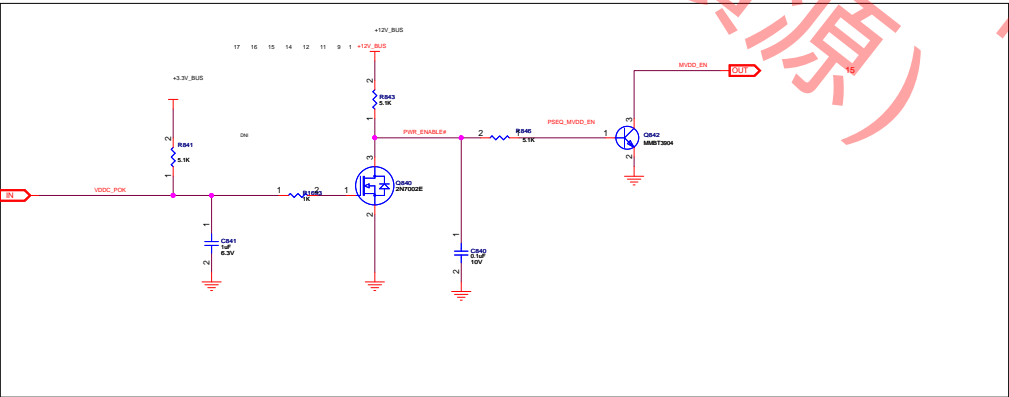
$$V_{out} = 1.25V \cdot \left[ 1 + \left( \frac{R_{305}}{R_{304}} \right) \right]$$

```
Change +5V REGULATOR to A1117
copy from MS-V208-5.0
```

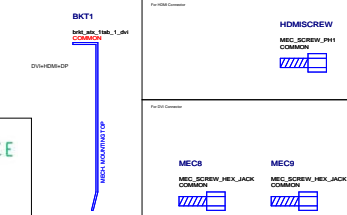
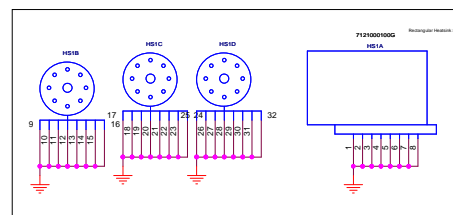
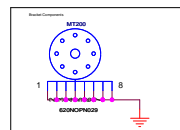




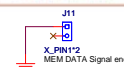
POWER SEQUENCING CIRCUIT



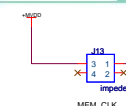


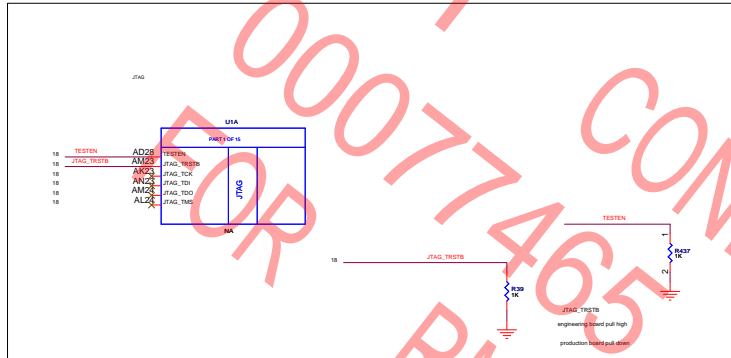
[illegible]

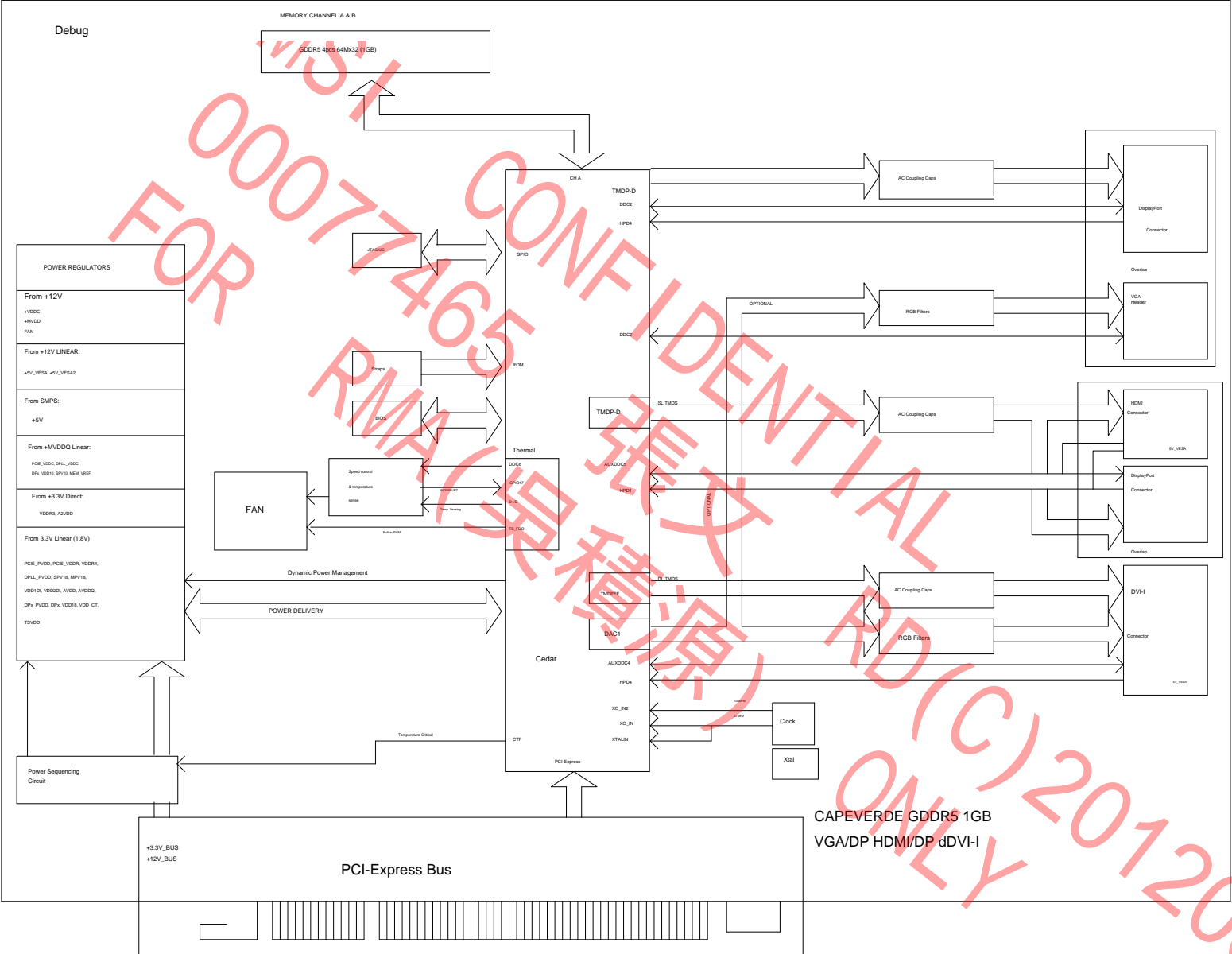
M2	MICROSTRIP IMPEDANCE	
	35 ohms +/- 10%	
	Trace Width:	0.2 mm
	On Layers:	1,4
	Referenced to:	2,3
Note: MEM ADD/CRTL TRUNK		



D1	DIFFERENTIAL IMPEDANCE
	80 ohms +/- 10%
	Trace Width: 0.13 mm
	Spacing: 0.19 mm
	On Layers: 1,4
	Referenced To: 2,3
	Note: MEM CLOCK







			TITLE CAPE VERDE PRO GDORS 64Mx32 RDV4-HYEMDP-02V04	SCHEMATIC NO. 100-C445X-00	DATE
REVISION HISTORY			NOTE THIS SCHEMATIC REPRESENTS THE PDA. IT DOES NOT REPRESENT ANY SPECIFIC BAY. FOR OPTIMUM OPTICAL PERFORMANCE, PLEASE REFER TO THE PRODUCT SPECIFICATIONS. PLEASE CONTACT THE REPRESENTATIVE TO THE APPLICATOR BAY LIBRARY TO THE APPLICATOR DESKTOP.		
SCN REV	PCR REV	DATE	REVISION DESCRIPTION		
01	001	20110311	Initial CAPE VERDE schematic.		
02	002	20110323	1. Update Schematic of CAPE VERDE to 64Mx32 RDV4-HYEMDP-02V04. 2. Add Schematic of CAPE VERDE to 64Mx32 RDV4-HYEMDP-02V04. 3. Add Schematic of CAPE VERDE to 64Mx32 RDV4-HYEMDP-02V04. 4. Remove Schematic of CAPE VERDE to 64Mx32 RDV4-HYEMDP-02V04.		
03	003	20110327	1. Add Schematic of CAPE VERDE to 64Mx32 RDV4-HYEMDP-02V04. 2. Update Schematic of CAPE VERDE to 64Mx32 RDV4-HYEMDP-02V04. 3. Remove Schematic of CAPE VERDE to 64Mx32 RDV4-HYEMDP-02V04.		
04	004	20110329	1. Update Schematic of CAPE VERDE to 64Mx32 RDV4-HYEMDP-02V04. 2. Update Schematic of CAPE VERDE to 64Mx32 RDV4-HYEMDP-02V04.		