

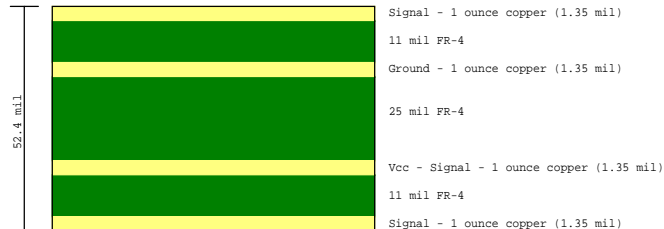
TAP Video Board


Rev 1.0 - Summer 2005

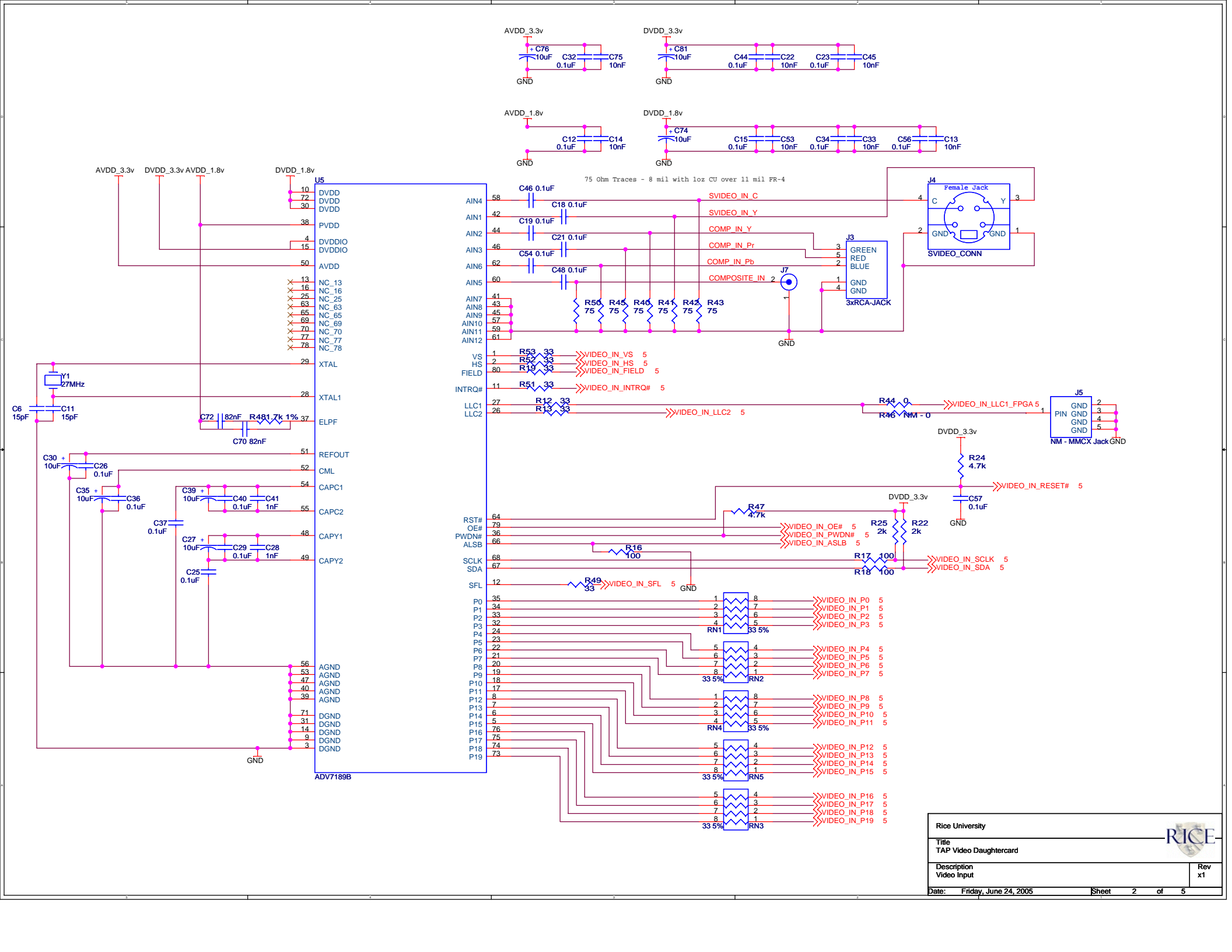
Schematic Pages:


- 1 - Table of Contents
- 2 - Video Input (AD7189B)
- 3 - Video Output & RS232
- 4 - Power Regulation
- 5 - FPGA Board Headers

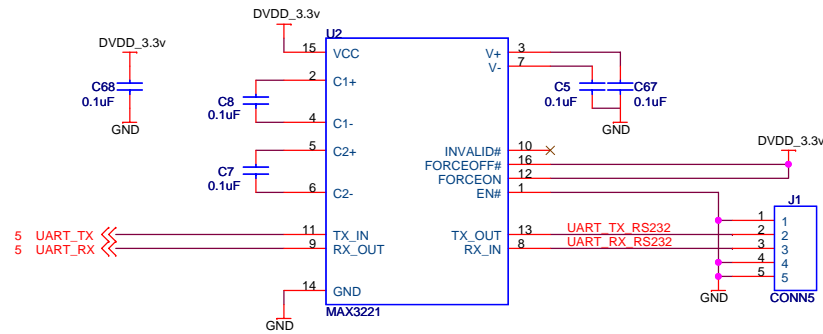
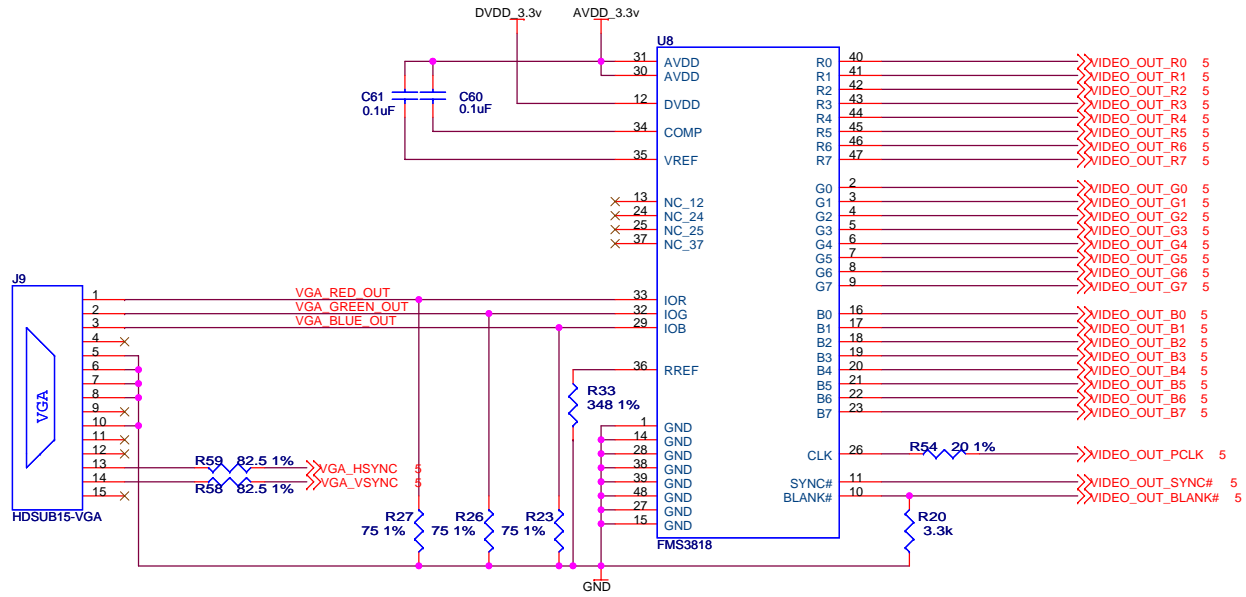
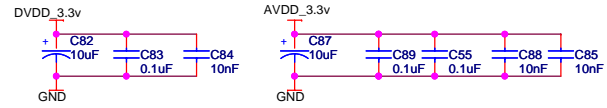
Suggested stackup:
(7 mil trace on top layer is $Z_0=75\text{ohm}$)



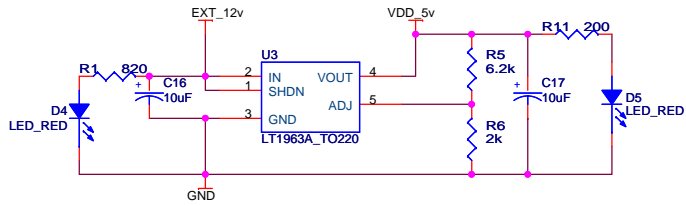
Rice University		
Title TAP Video Daughtercard		
Description Table of Contents		Rev x1
Date: Monday, June 20, 2005	Sheet 1 of 5	



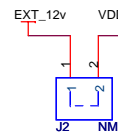
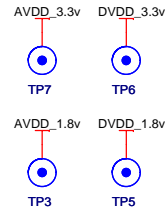
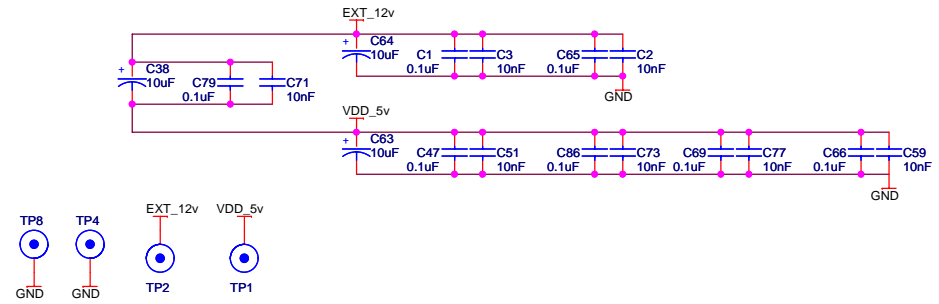
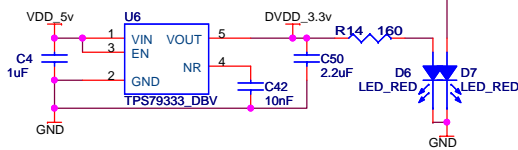
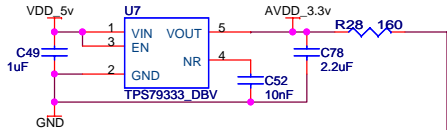
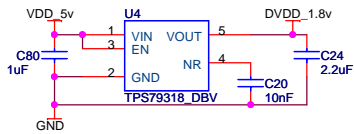
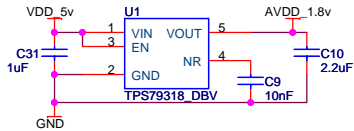
Rice University		
Title TAP Video Daughtercard		
Description Video Input	Rev x1	
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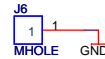
Adjustable version of LT1963
to allow a 5v output
R2=6.2k, R1=2k => Vout=4.98v
(see pg. 11 of LT1963 datasheet)




DVDD1.8v: 82mA
DVDD3.3v: 92+uart mA
AVDD1.8v: 180mA
AVDD3.3v: 10.5mA



Jumper to bypass 12v->5v regulator
In case later TAP FPGA boards use 5v
supplies for daughtercards
These should be mounted only if the
LT1963's are not.



Rice University		
Title TAP Video Daughtercard		
Description Power Supplies	Rev x1	
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