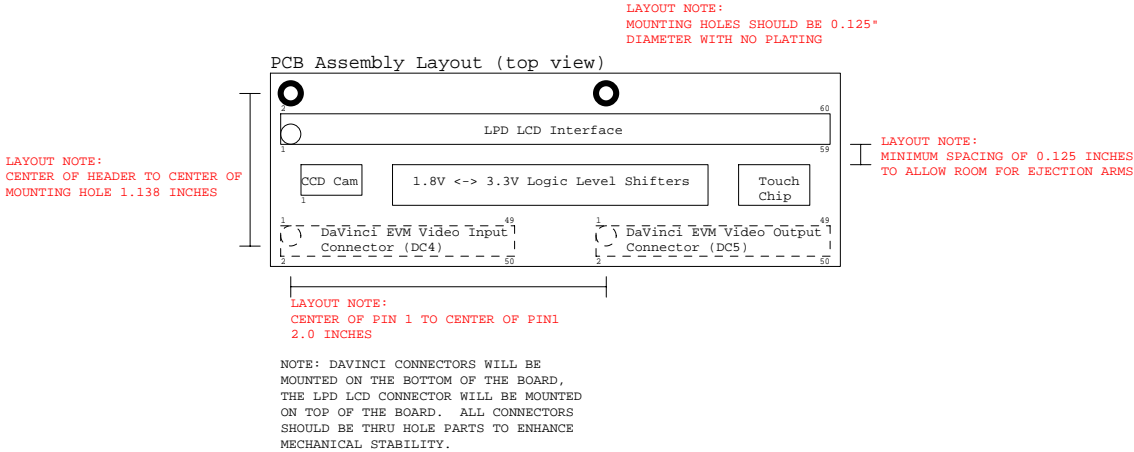


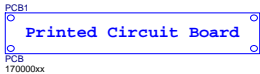
Table of Contents	
Page	Description
1	Title & Block Diagram
2	DaVinci Video Interface
3	Level Shifters
4	LPD LCD Kit Interface/ITU-R BT.656 Camera Header

# Title & Block Diagram

ECO Number	Rev	Description of Change	Date
	0.x	Preliminary	DD-MMM-YYYY



COLOR LEGEND
<b>NOTE:</b> NOTES IN GREEN TEXT ARE GENERAL DESIGN OR SCHEMATIC NOTES
<b>LAYOUT NOTE:</b> NOTES IN RED TEXT ARE PCB LAYOUT RECOMMENDATIONS OR GUIDELINES
<b>NET NAMES</b> NET NAMES IN GREEN TEXT ARE NETS THAT ARE NOT DIRECTLY CONNECTED WITH A VISIBLE WIRE ON SINGLE SCHEMATIC PAGE, BUT USE THIS CONVENTION TO MAKE THE SCHEMATIC EASIER TO READ
<b>NET NOTE</b> NET NOTES IN BLACK TEXT INDICATE A PARTICULAR FUNCTIONALITY OF A SPECIFIC NET, IT IS NOT A NET NAME MERELY TEXT AND HAS NO AFFECT ON THE DRC.

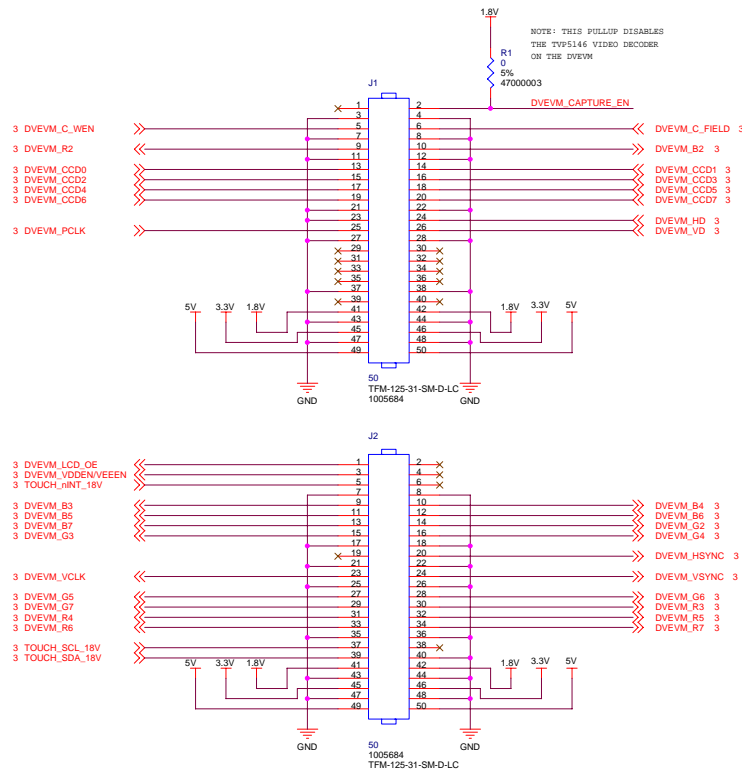


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<b>LOGIC</b> PRODUCT DEVELOPMENT		411 WASHINGTON AVE. N MINNEAPOLIS, MN 55401 PHONE: (612) 672-9495 FAX: (612) 672-9499	
Title	DaVinci EVM to LPD LCD Kit Adapter Board w/ CCD inputs		
Size	C	Number	1006078
Page	Modify Date = Friday, September 29, 2006	Project	TL_DVEVM_LCD
Rev	B	Sheet	1 of 4

02 - DaVinci Video Interface

ECO Number	Rev	Description of Change	Date
	0.x	Preliminary	DD-MMM-YYYY

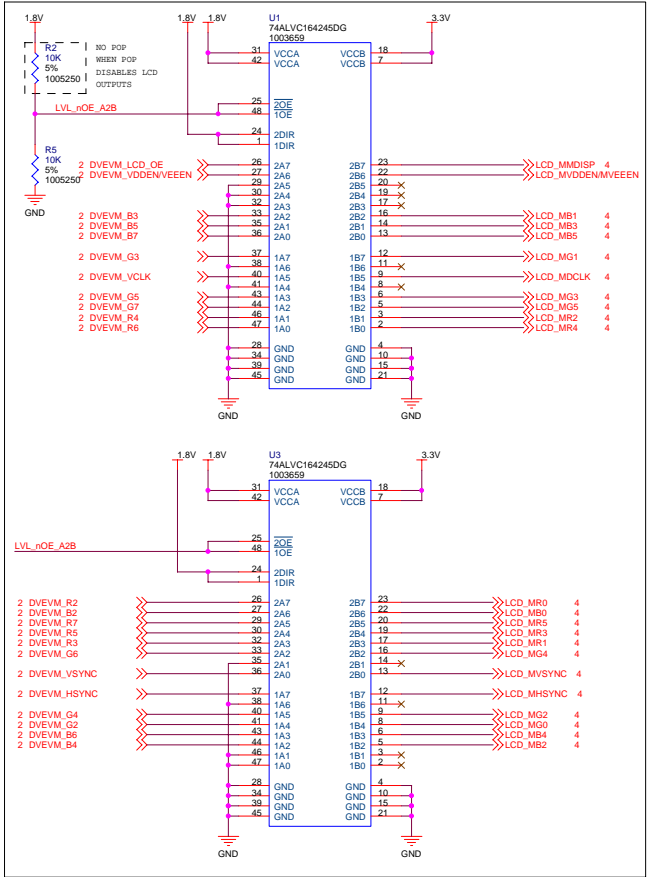


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		<b>LOGIC</b>		411 WASHINGTON AVE. N MINNEAPOLIS, MN 55401 PHONE: (612) 672-9495 FAX: (612) 672-9499	
<b>PRODUCT DEVELOPMENT</b>					
Title DaVinci Video Interface					
Size C		Number 1006078		Rev B	
Page Modify Date = Friday, September 29, 2006		Project TL_DVEVM_LCD		Sheet 2 of 4	

03 - Level Shifters

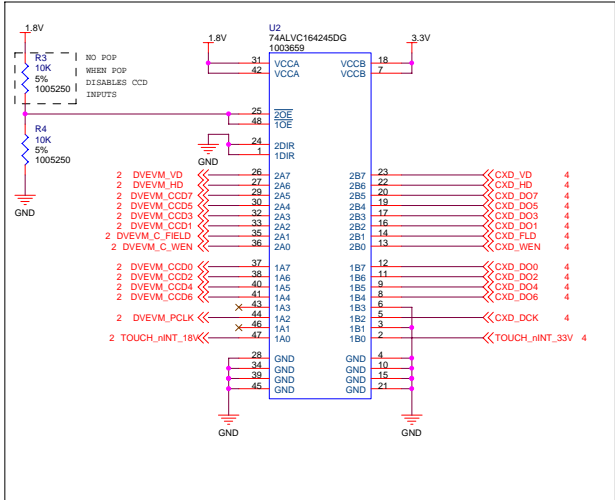
DIRECTION OF VOLTAGE TRANSLATION  
1.8V ----> 3.3V



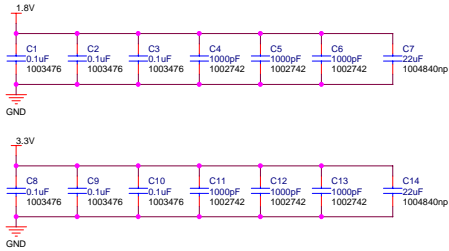
CONNECTION OF COLOR  
SIGNALS BETWEEN DVEVM  
AND LCD

DVEVM	LCD
R7	R5
R6	R4
R5	R3
R4	R2
R3	R1
R2	R0
R1	NC
R0	NC
B7	B5
B6	B4
B5	B3
B4	B2
B3	B1
B2	B0
B1	NC
B0	NC
G7	G5
G6	G4
G5	G3
G4	G2
G3	G1
G2	G0
G1	NC
G0	NC

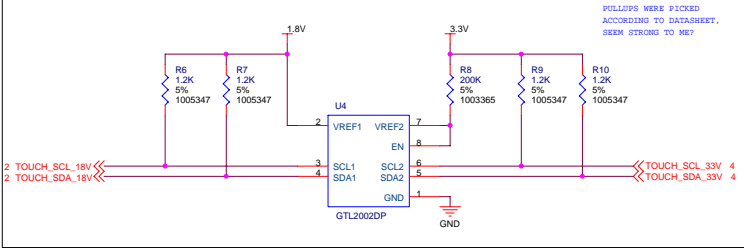
DIRECTION OF VOLTAGE TRANSLATION  
1.8V <---- 3.3V



LAYOUT NOTE: PLACE ONE PAIR OF  
CAPS NEAR EACH IC

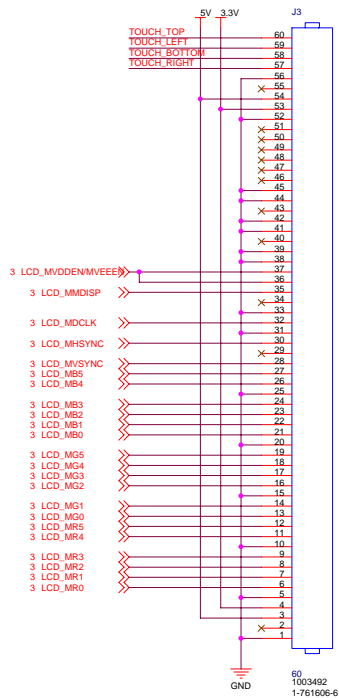


I2C LEVEL SHIFTING



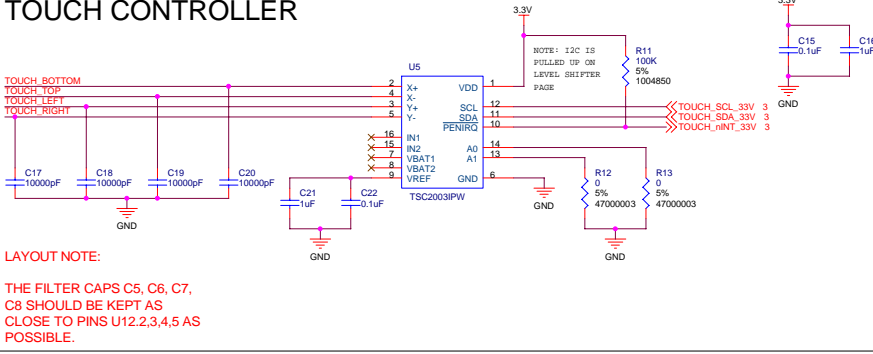
PULLUPS WERE PICKED  
ACCORDING TO DATASHEET,  
SEEN STICKING TO ME?

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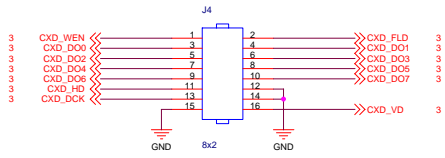
NOTE: THIS CONNECTOR IS ACTUALLY A 30X2 DUAL ROW .100" PITCH, .025"SQ POST MALE HEADER. IT IS REPRESENTED SYMBOLICALLY THIS WAY TO SHOW HOW THE SIGNALS WILL ROUTE THROUGH THE RIBBON CABLE.

TOUCH CONTROLLER



LAYOUT NOTE:  
THE FILTER CAPS C5, C6, C7, C8 SHOULD BE KEPT AS CLOSE TO PINS U12.2,3,4,5 AS POSSIBLE.

Interface to Input BT656 Video



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