

NOTES:

1. PLACE NET NAMES ON ALL JUMPERS AND HEADERS.
2. PLACE ALL PARTS OTHER THAN SMP CONNECTORS ON A 0 OR 90 DEGREE ORIENTATION.
3. SERIAL DATA SHOULD BE ROUTED AS SINGLE-ENDED 50 OHM TRANSMISSION LINES ON OUTSIDE LAYERS. ROUTING DISTANCE SHOULD BE 3 INCHES OR LESS.
4. USE ROGERS MATERIAL FOR OUTSIDE LAYERS AND FR4-370 MATERIAL FOR INSIDE LAYERS.
5. SERIAL AND REFCLK NETS MUST MATCH WITHIN +/- 0.5 MILS
6. MATCH DIFFERENTIAL TRACE WIDTHS OF SERIAL AND REFCLK LINES WITH SMP/SMA PADS.
7. PLACE TI LOGO IN TOP SIDE METAL

REVISIONS		
ECR	ECR NUMBER	DATE
	-----	xx/xx/xx

SCHEMATIC SHEET INDEX:

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SHEET 13: HIGH SPEED DATA SIGNALS
SHEET 14: DATA BOARD TO BOARD CONNECTOR
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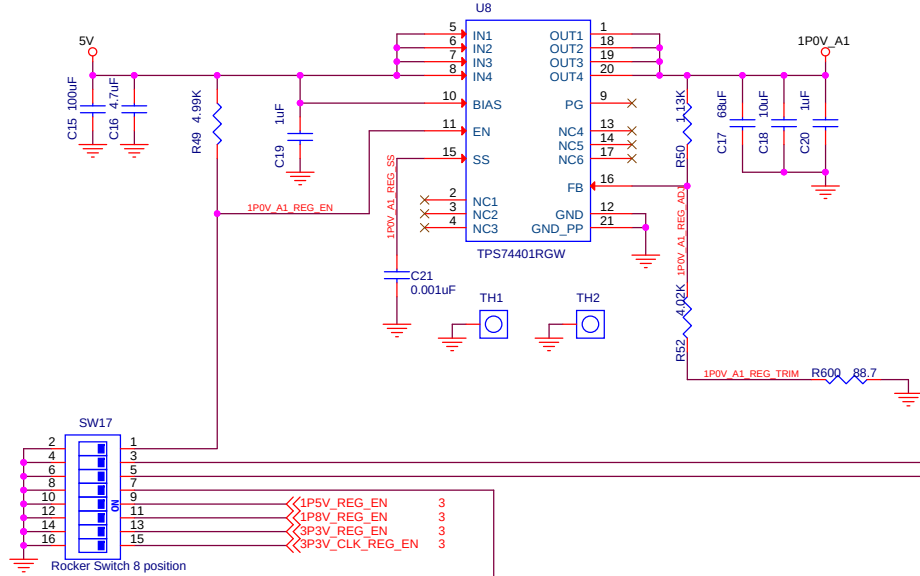
TLK10XXX DATA SHEET REVISION: x.x.x
DATA SHEET LAST UPDATED ON: xx/xx/xx



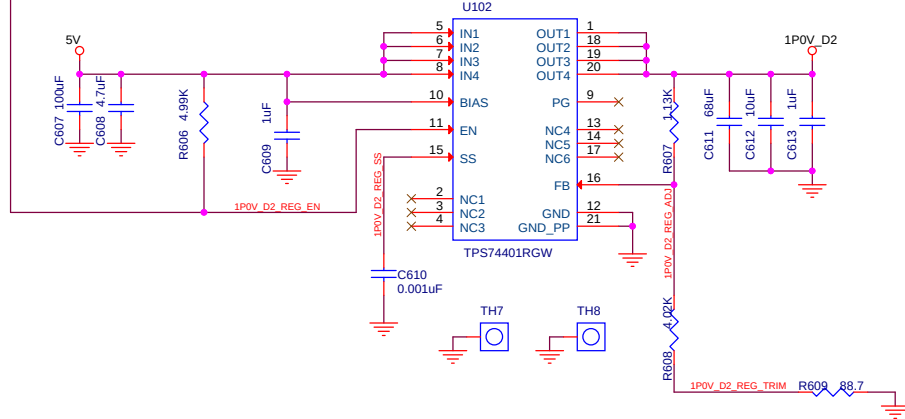
TEXAS INSTRUMENTS			
SCHEMATIC TITLE			
TLK10XXX EVM MOTHER BOARD			
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ENGINEER	DATE
J. NERGER	04/12/13
LAYOUT	DATE
DFW TEST	04/12/13
RELEASED	DATE
J. NERGER	04/12/13

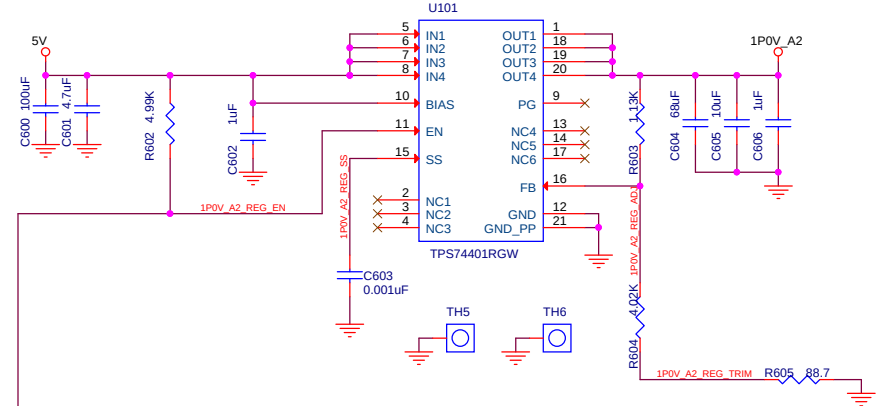
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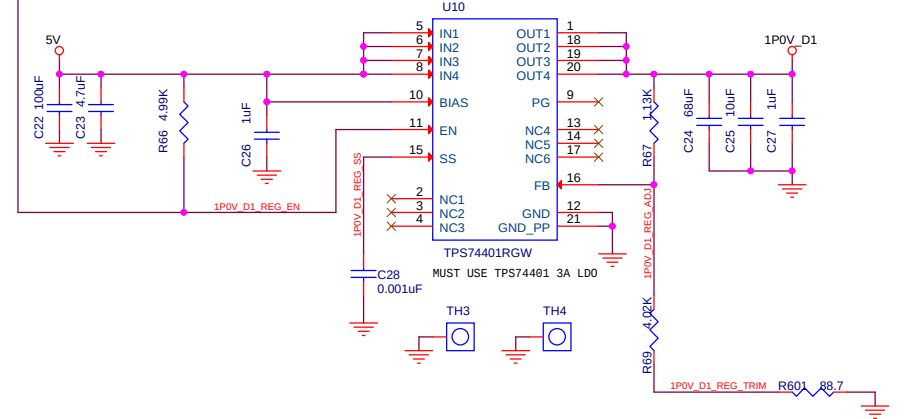
1.0V DIGITAL REGULATOR 2



1.0V ANALOG REGULATOR 2

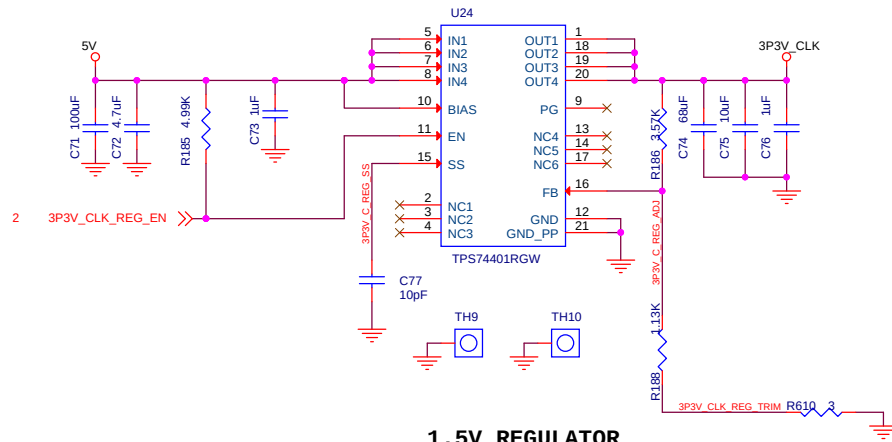


1.0V DIGITAL REGULATOR 1

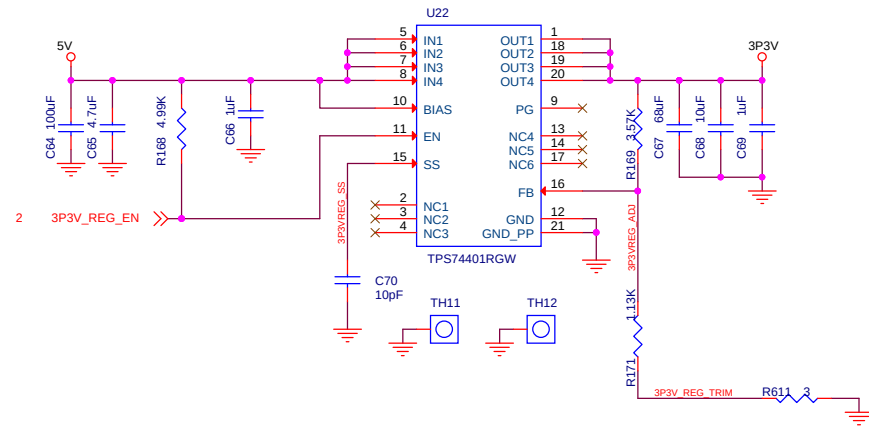


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1P0V REGULATORS			
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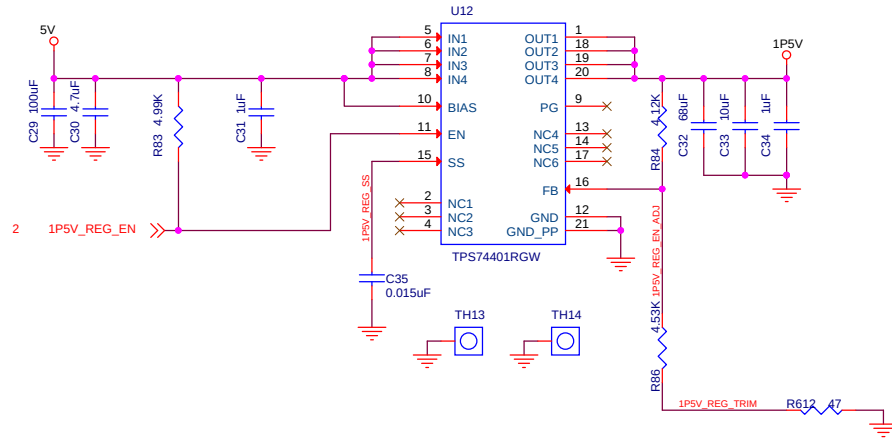
3.3V CLK REGULATOR



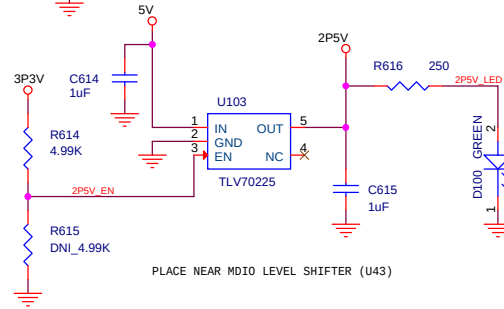
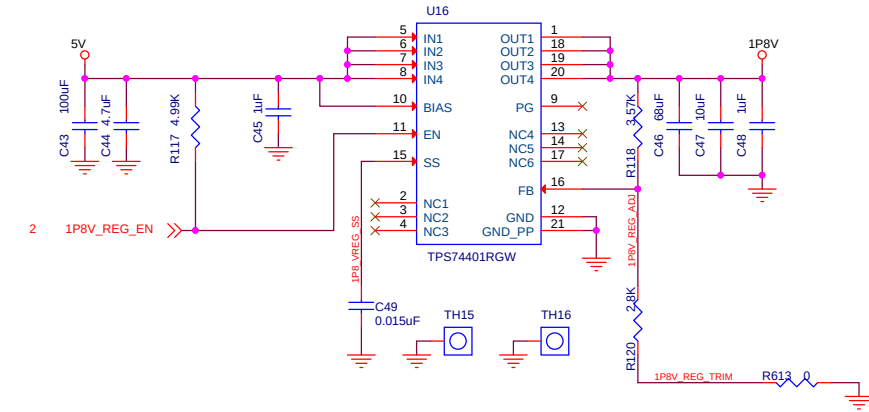
3.3V REGULATOR



1.5V REGULATOR



1.8V REGULATOR

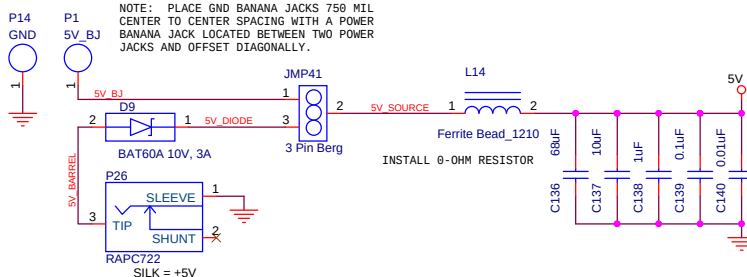
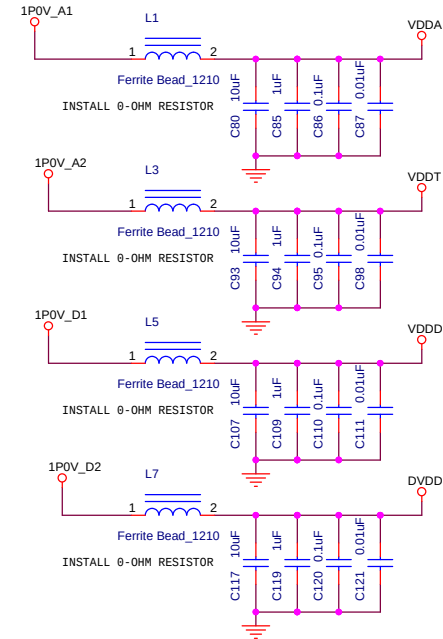
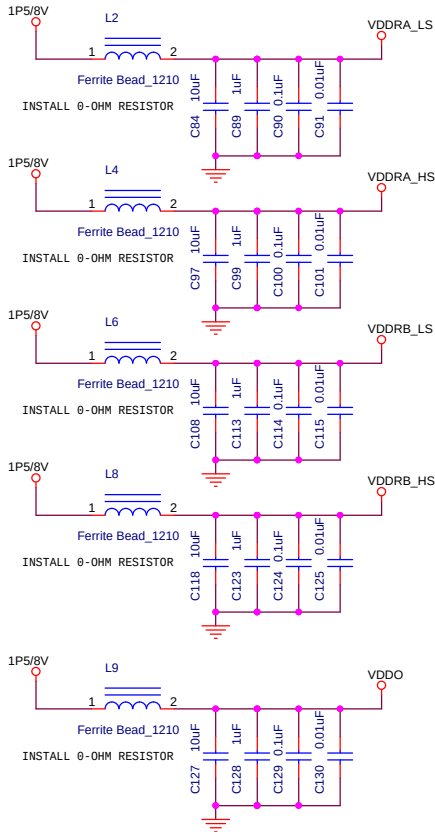
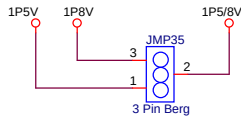
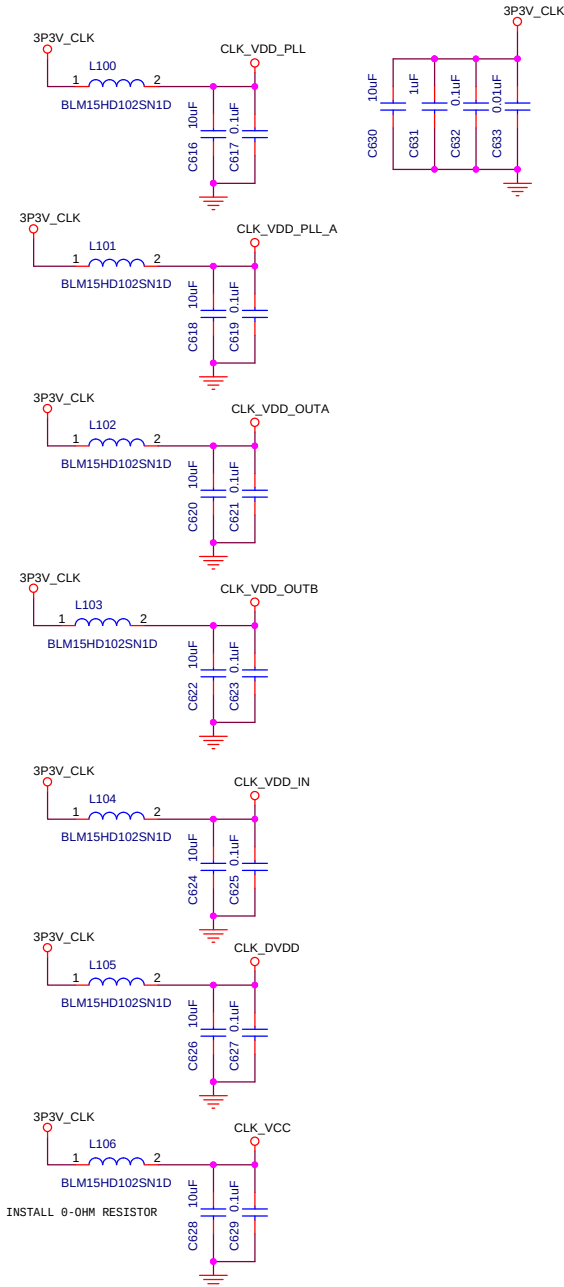


PLACE NEAR MDIO LEVEL SHIFTER (U43)



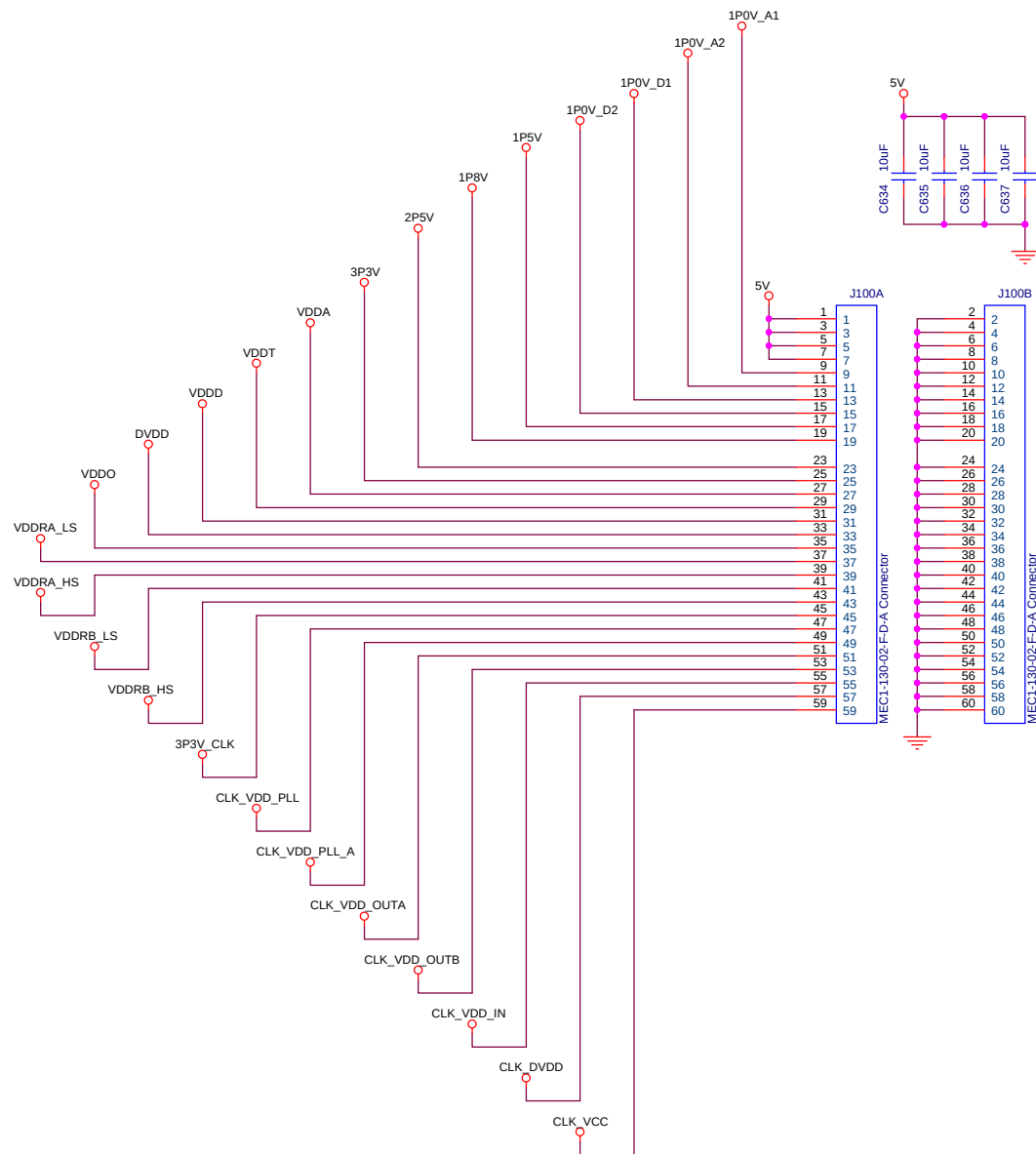
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PLANE FILTERING / BULK DECOUPLING



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NOTE:



NOTE:
PLACE DECOUPLING CAPS NEAR J100 CONNECTOR

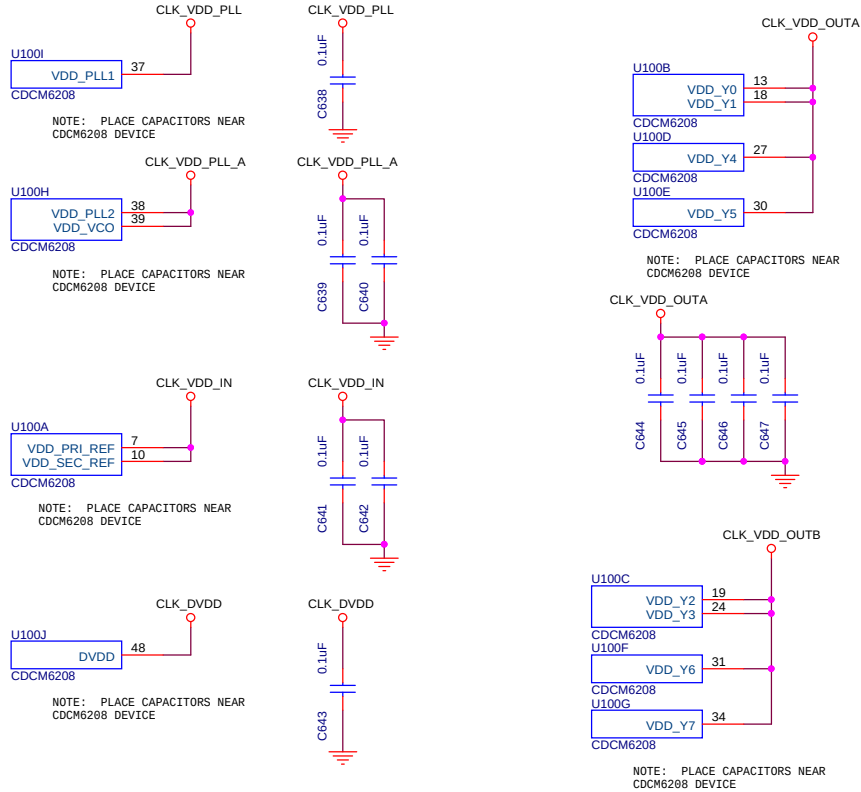


NOTES:

DECOUPLING GENERAL GUIDELINES:

1. PLACE CAPACITORS SUCH THAT SMALLER VALUE CAPACITORS ARE NEARER THE DUT AND THEN SUCCESSIVELY PLACE LARGER VALUE CAPACITORS AS YOU MOVE AWAY FROM THE DUT.
2. PLACE CAPACITORS NEAR VIAS AND CONNECTORS. THESE CAPACITORS SHOULD DECOUPLE THE DRIVER SUPPLY TO THE GROUND PLANE. IF A SIGNAL IS REFERENCED TO A POWER PLANE AND THIS POWER PLANE IS NOT ASSOCIATED WITH THE DRIVER SUPPLY, THEN THIS PLANE SHOULD ALSO BE DECOUPLED TO GROUND NEAR ALL ASSOCIATED VIAS AND CONNECTORS.

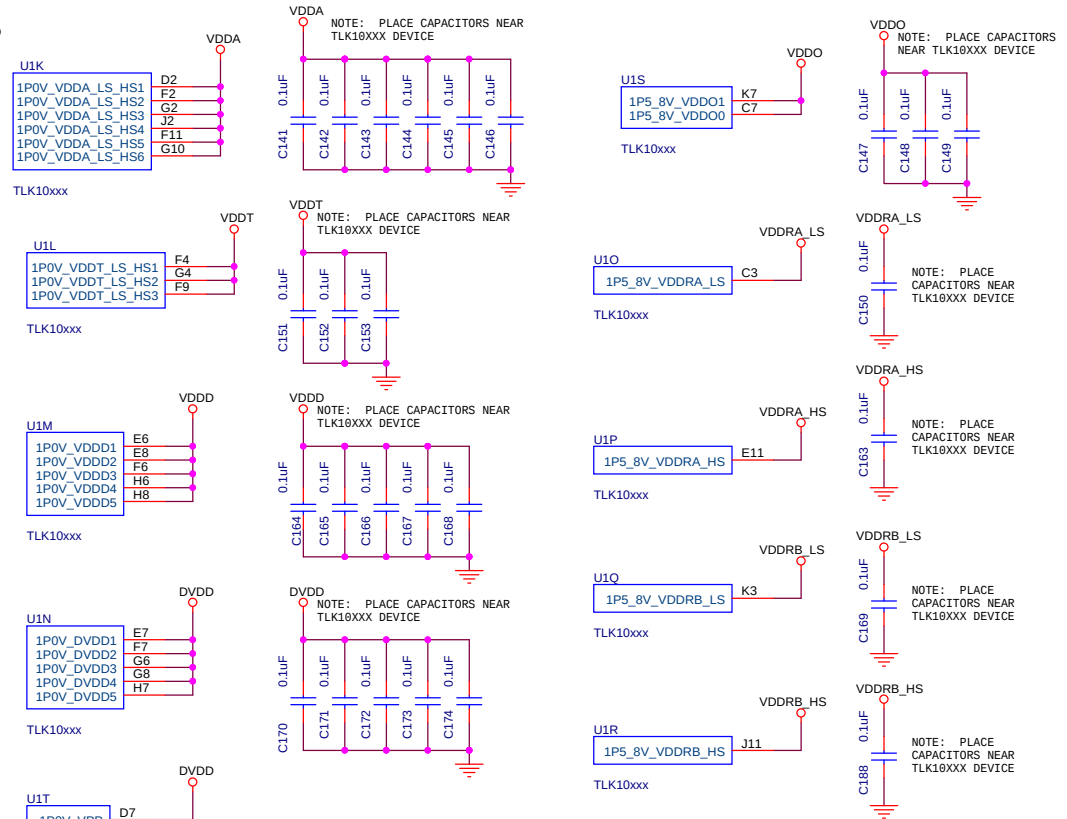
CDCM6208 DEVICE POWER / LOCAL DECOUPLING



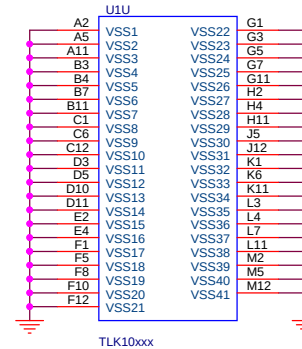
CDCM6208 DEVICE GROUND



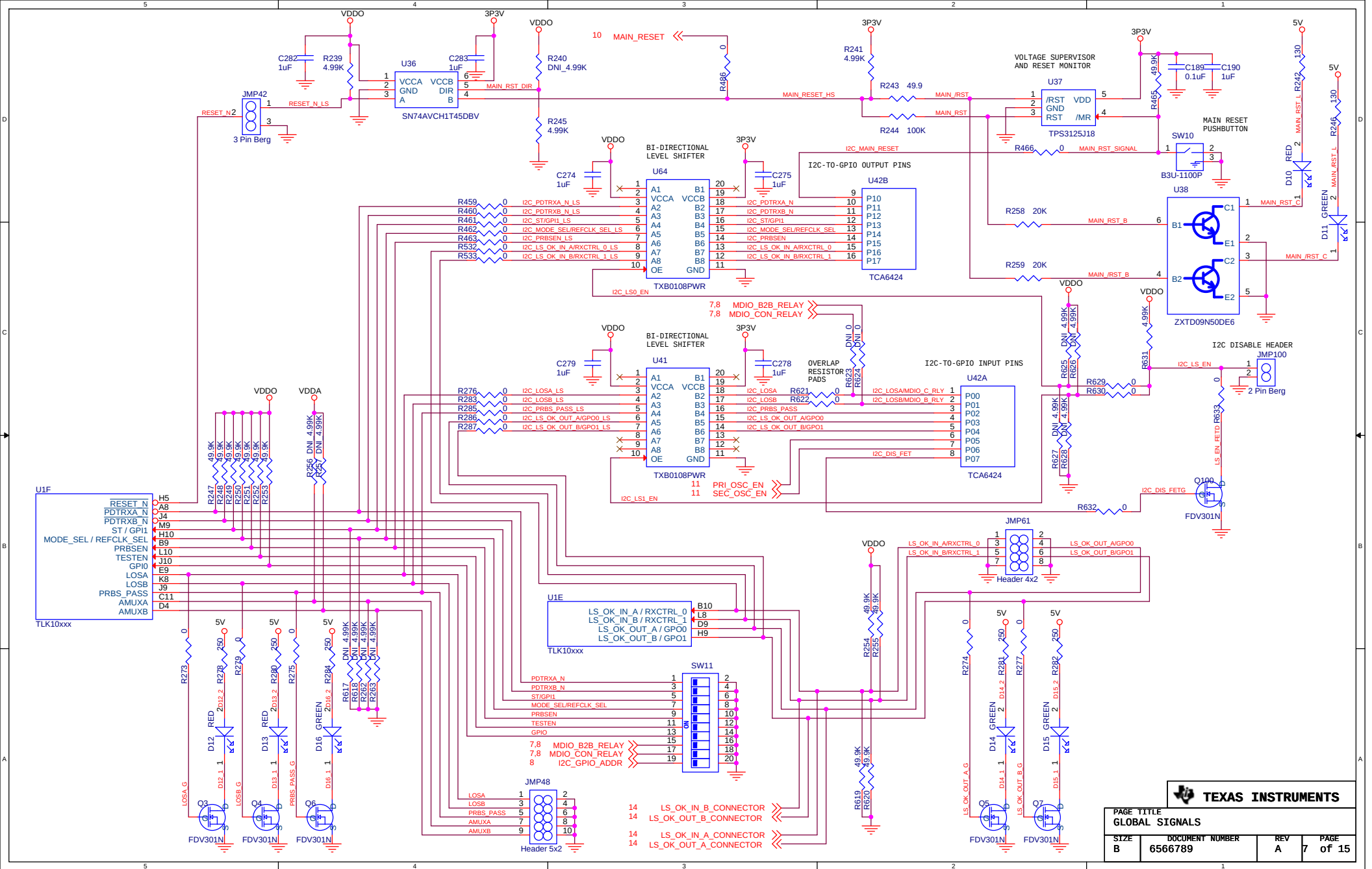
TLK10XXX DEVICE POWER / LOCAL DECOUPLING

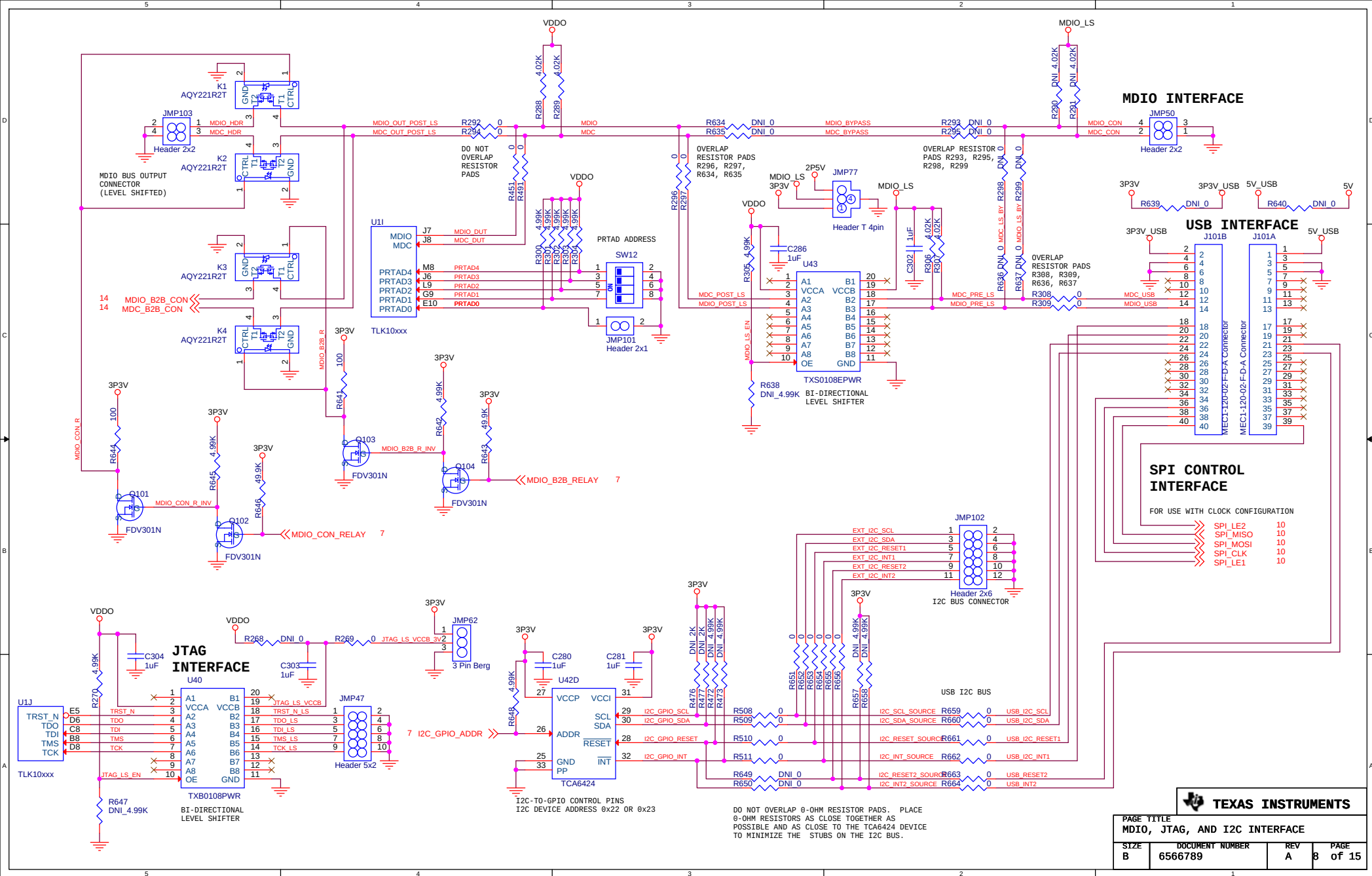


TLK10XXX DEVICE GROUND

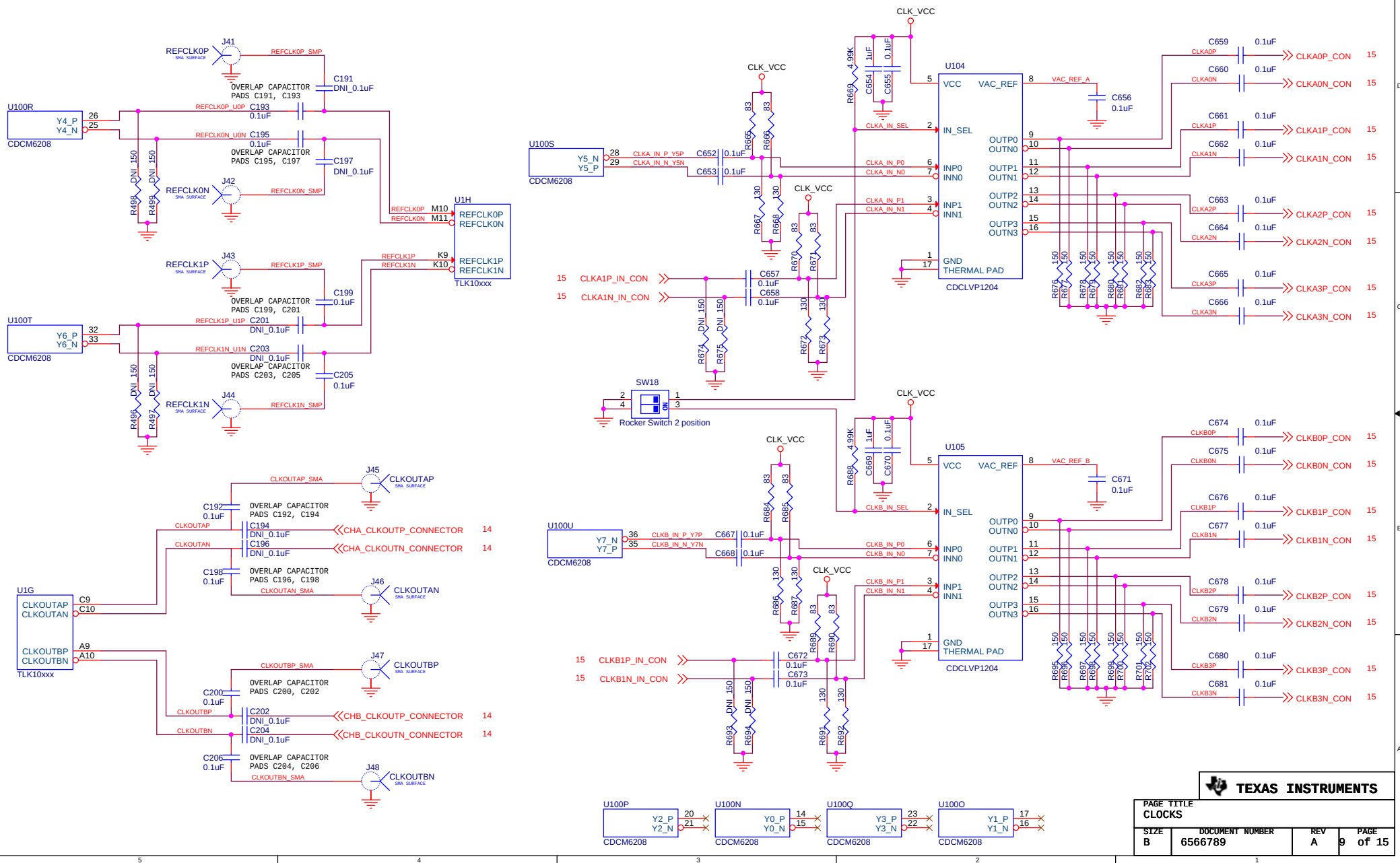


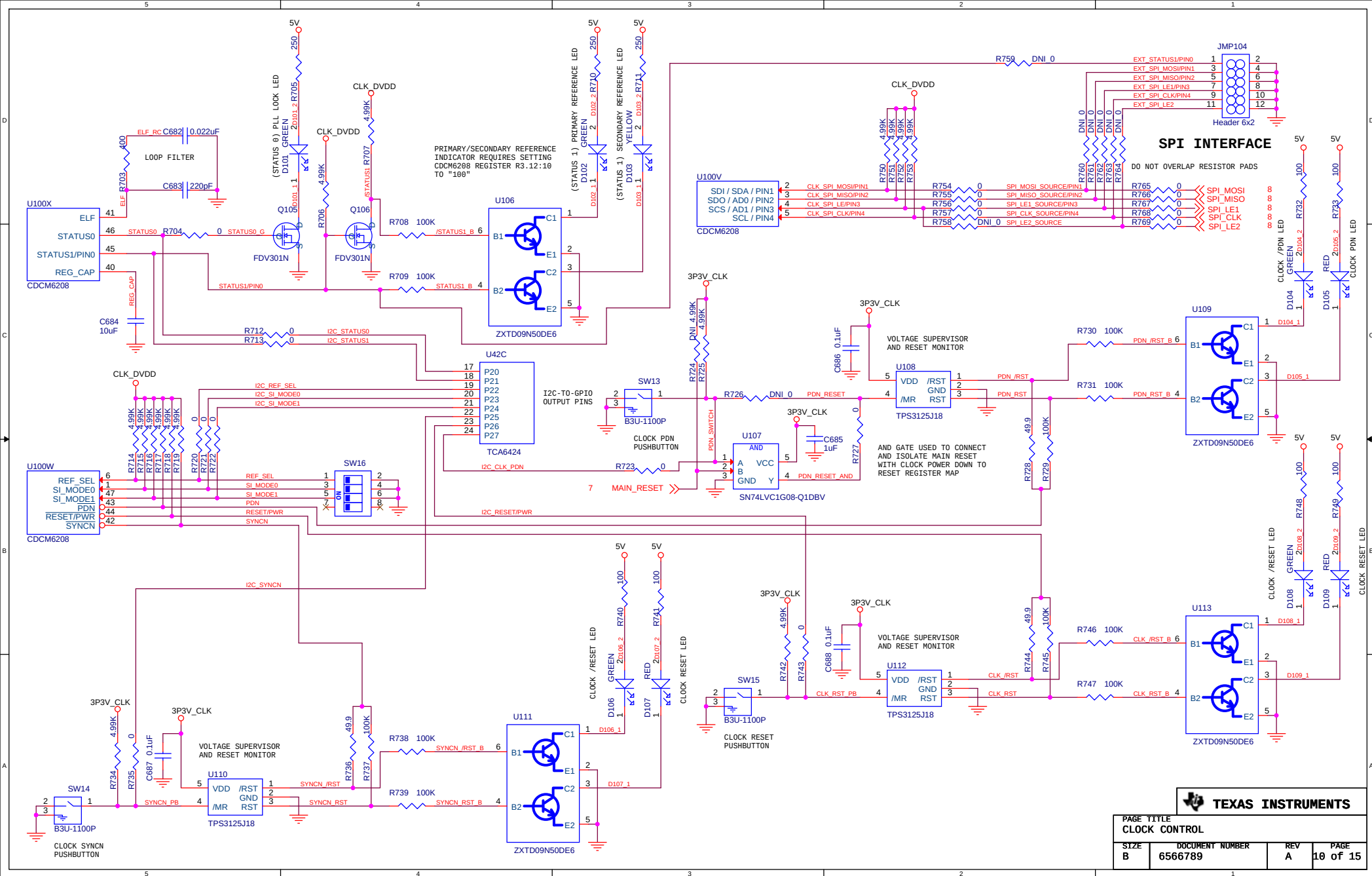
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DEVICE POWER, GROUND, LOCAL DECOUPLING			
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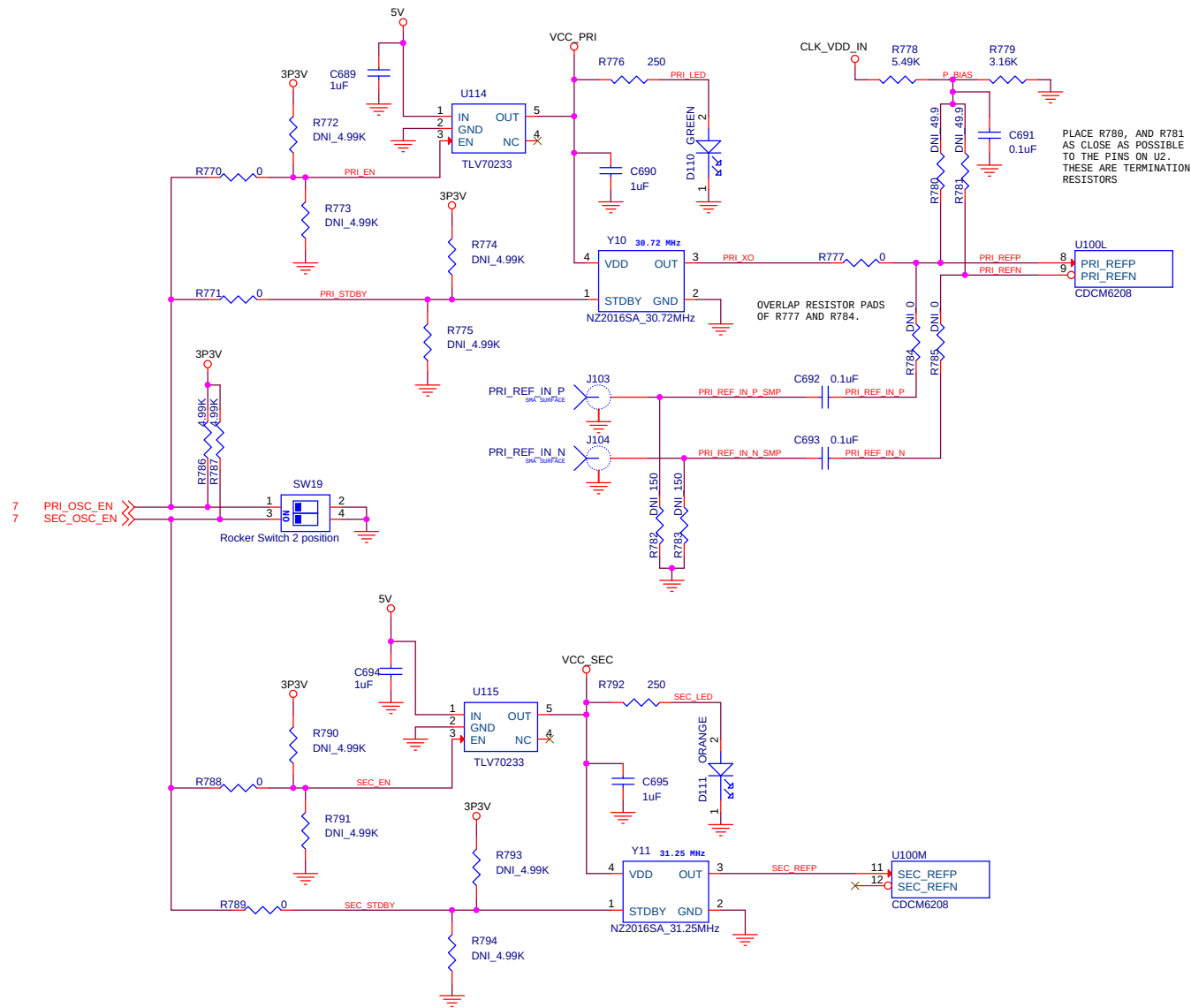


NOTE:
1. MATCH REFCLK0/1_P/N AND CLKOUT0/1_P/N TRACE LENGTHS TO EACHOTHER





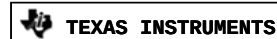
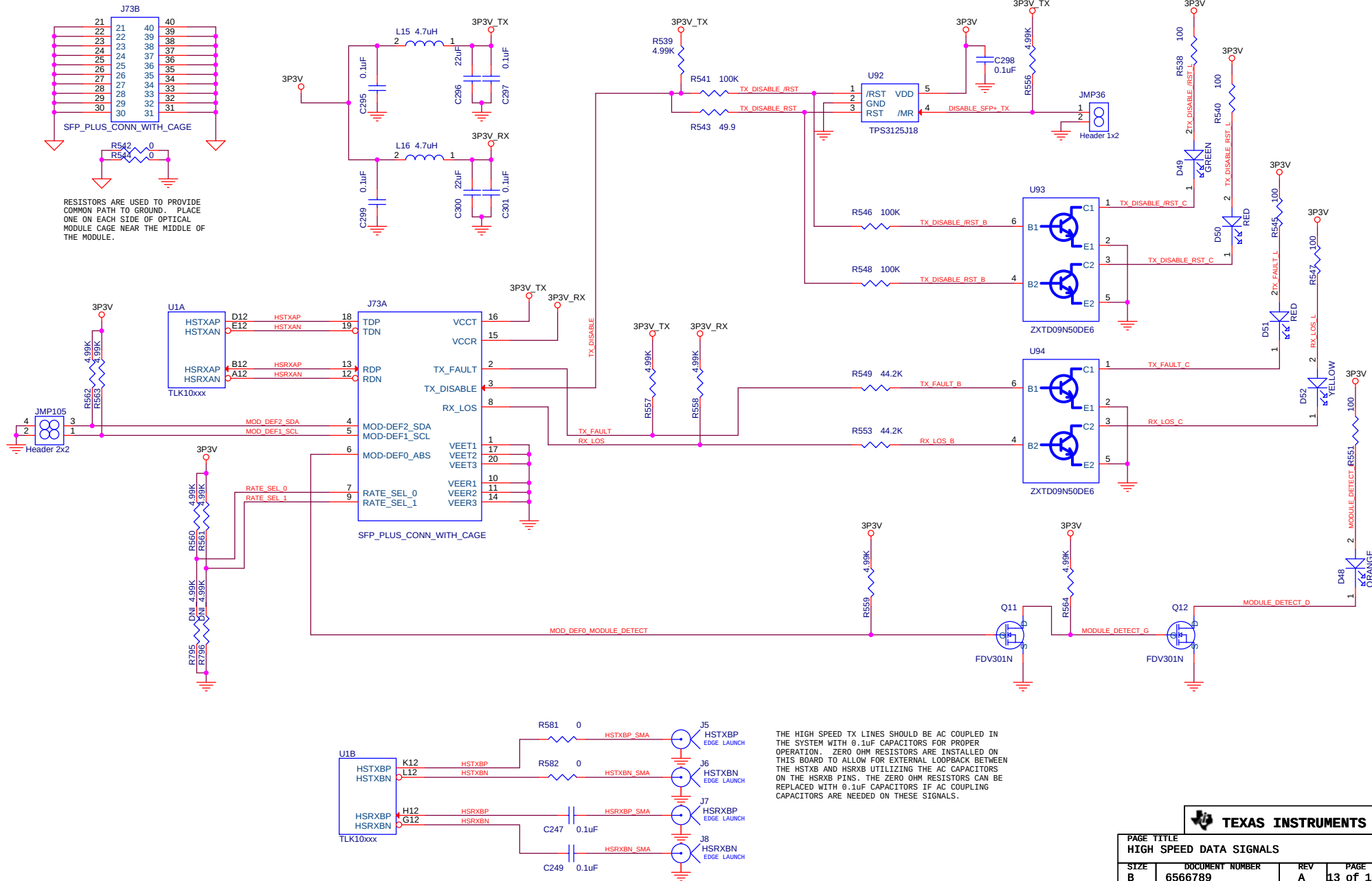
NOTE:



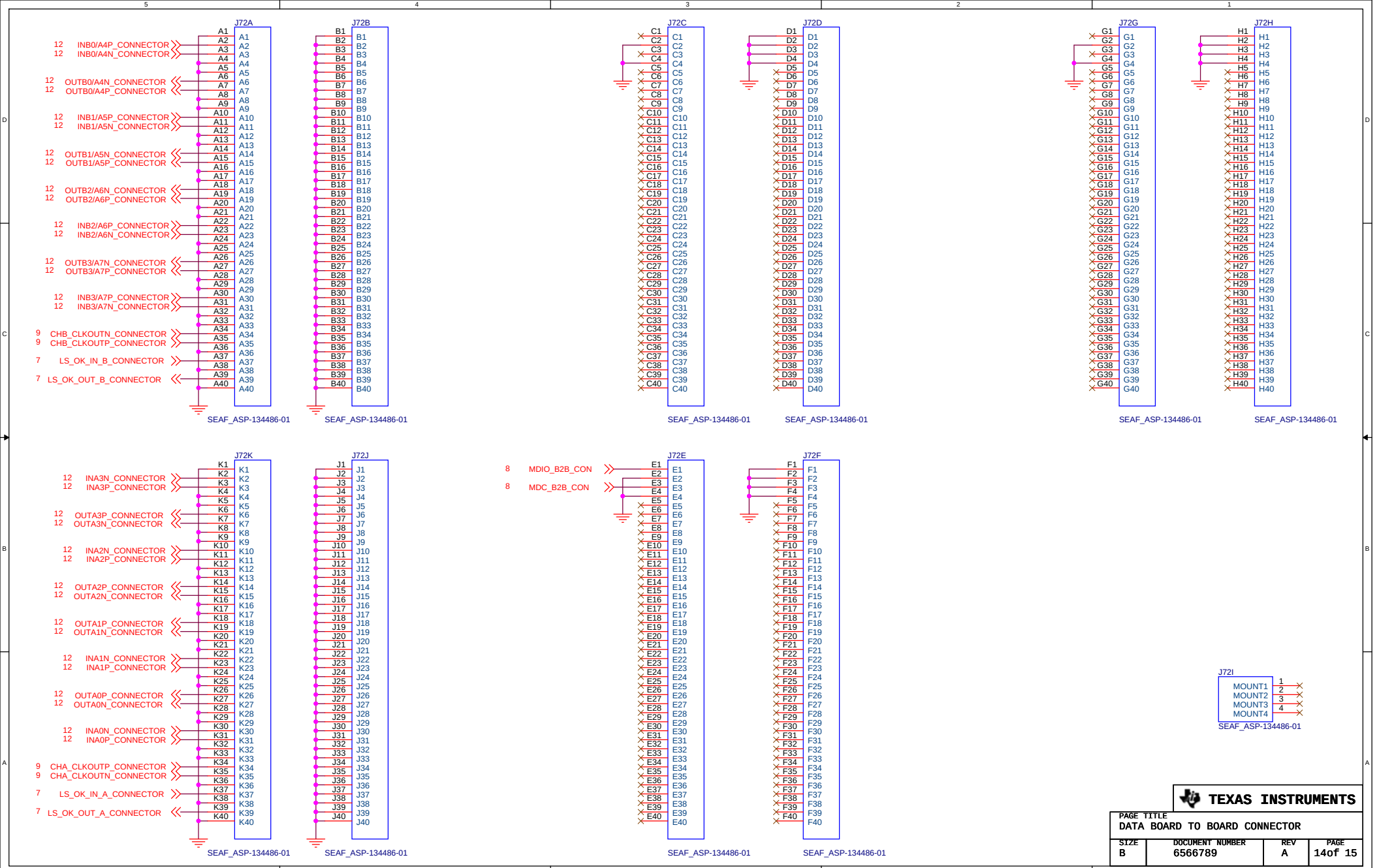
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CRYSTAL OSCILLATORS			
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NOTE:
1. MATCH LOW SPEED INPUT AND OUTPUT TRACE LENGTHS TO EACHOTHER
2. MATCH HIGH SPEED TRANSMIT AND RECEIVE TRACE LENGTHS TO EACHOTHER





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HIGH SPEED DATA SIGNALS			
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DATA BOARD TO BOARD CONNECTOR			
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