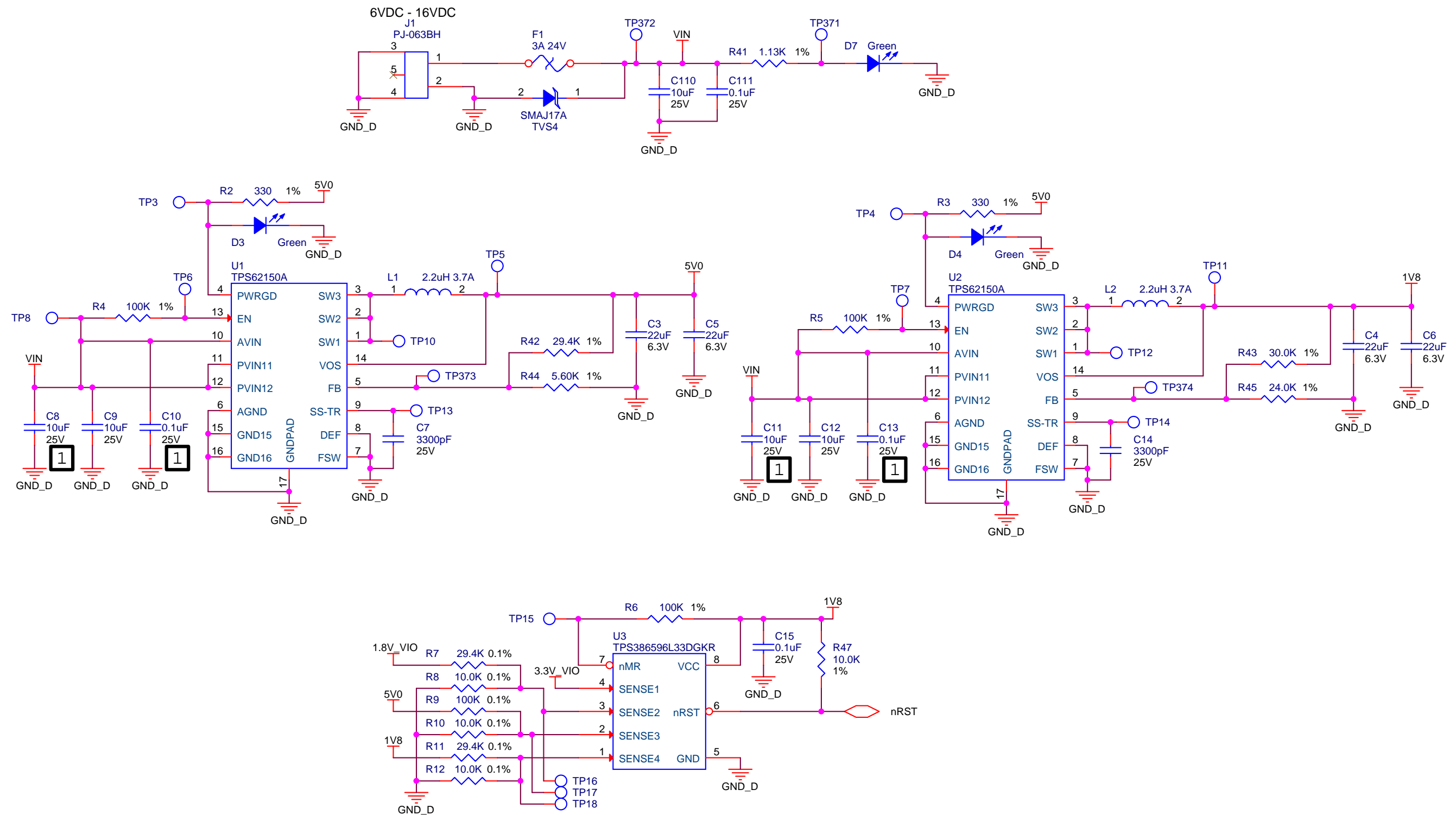


Rev.	Description	CO Number	Date	Approved By	Checked By
3.7	piSmasher alpha design	00003	03/30/2016	BEH	JJW



NOTES:

- 1 Place decoupling capacitors as close to IC pins as possible.

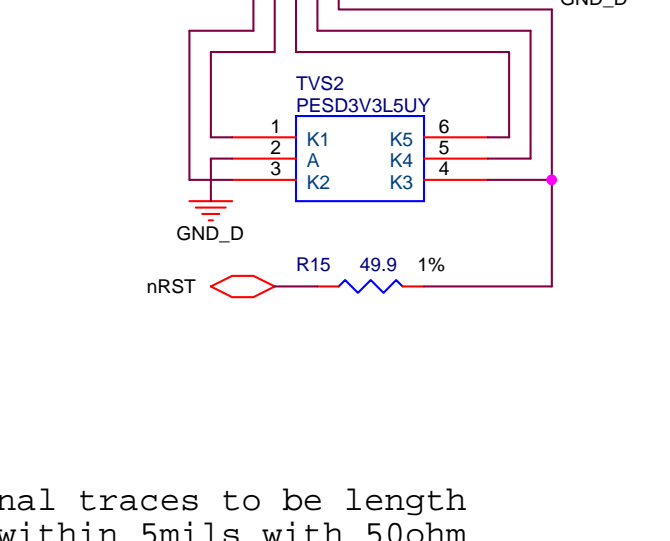
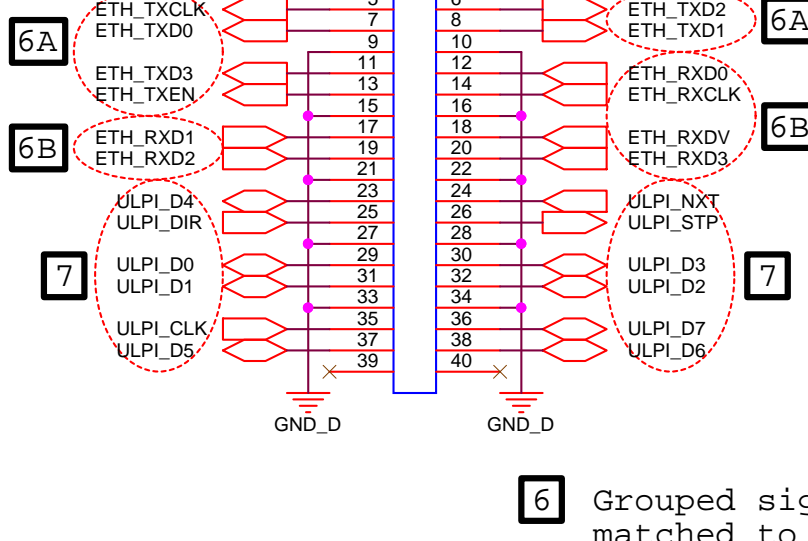
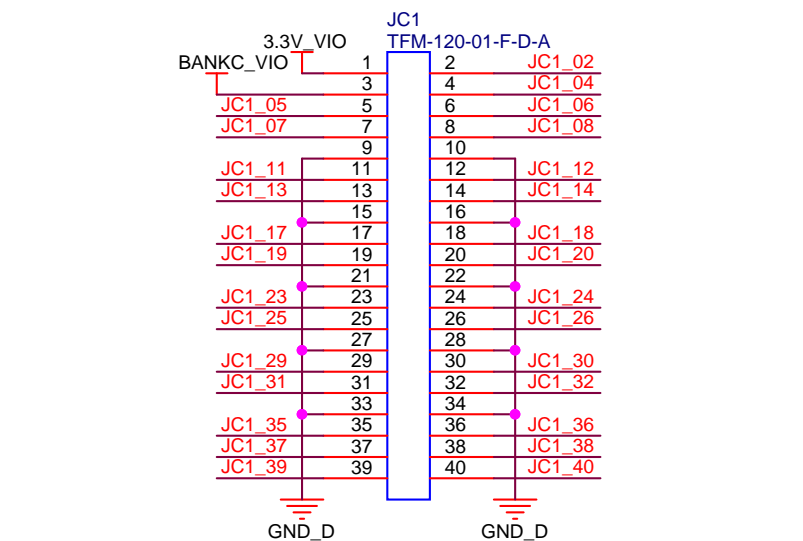
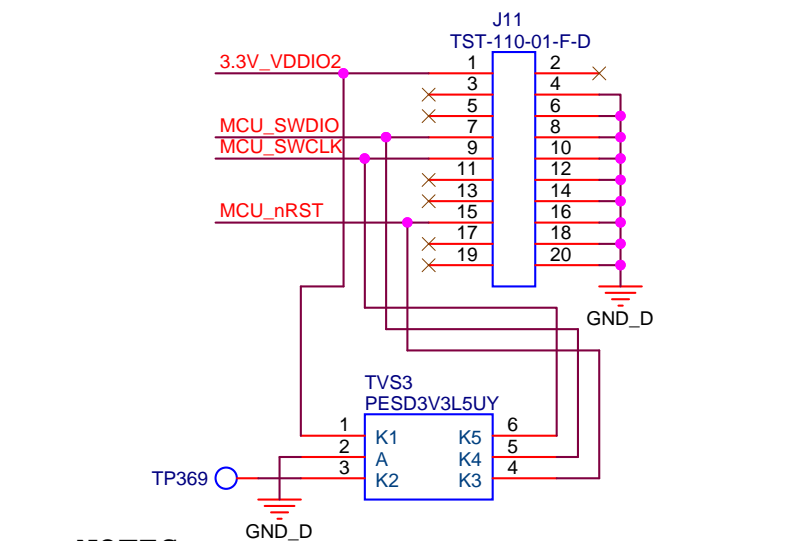
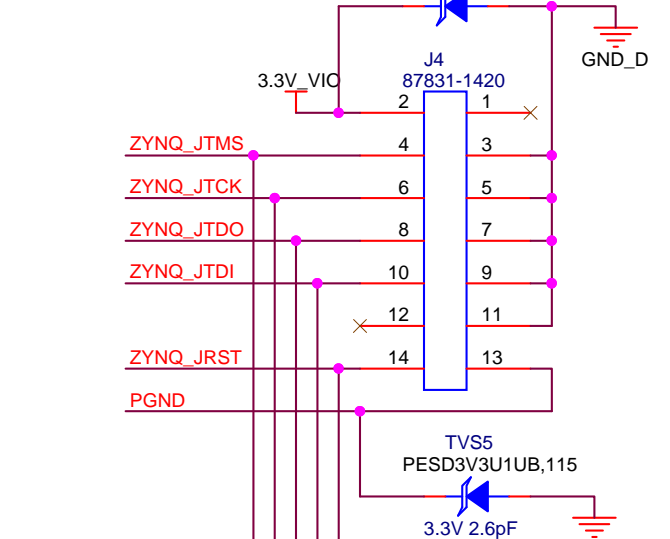
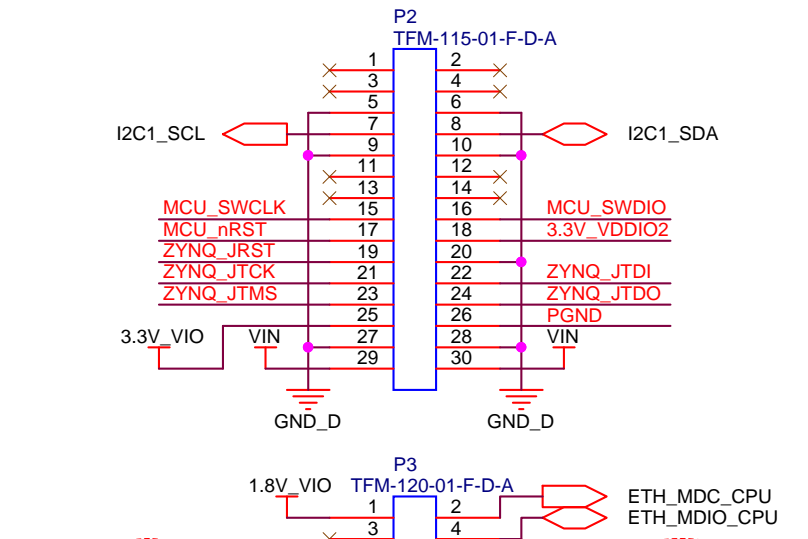
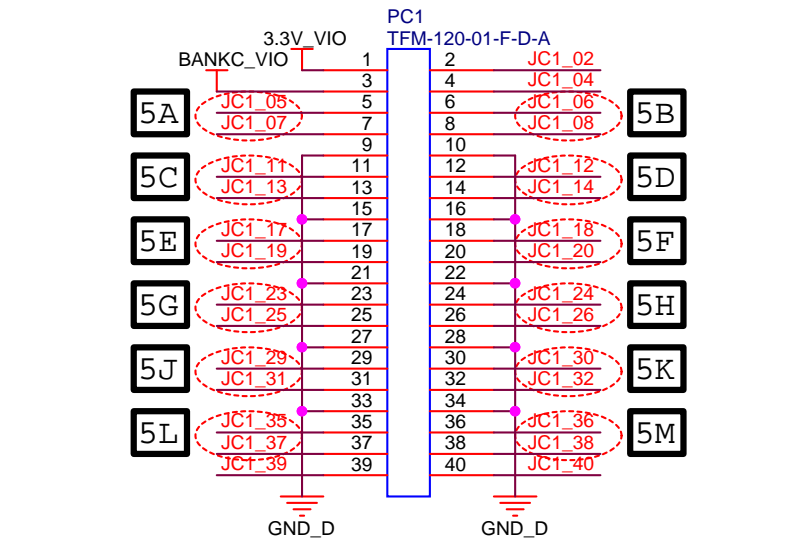
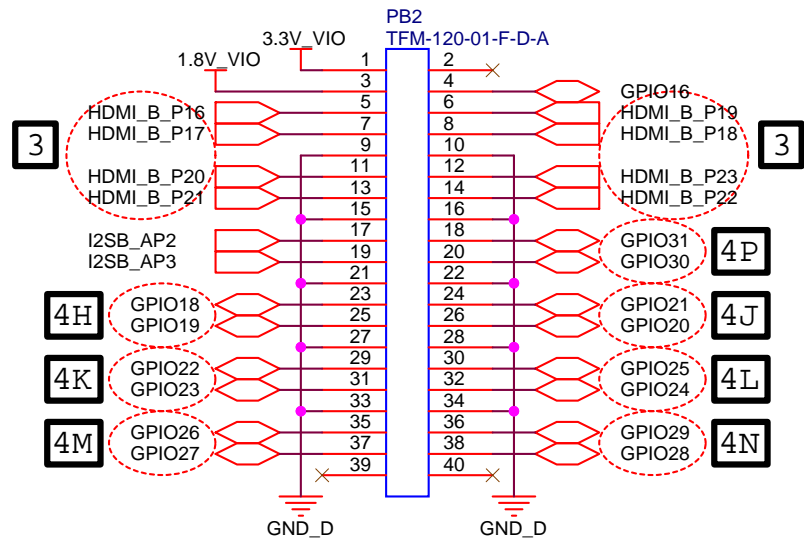
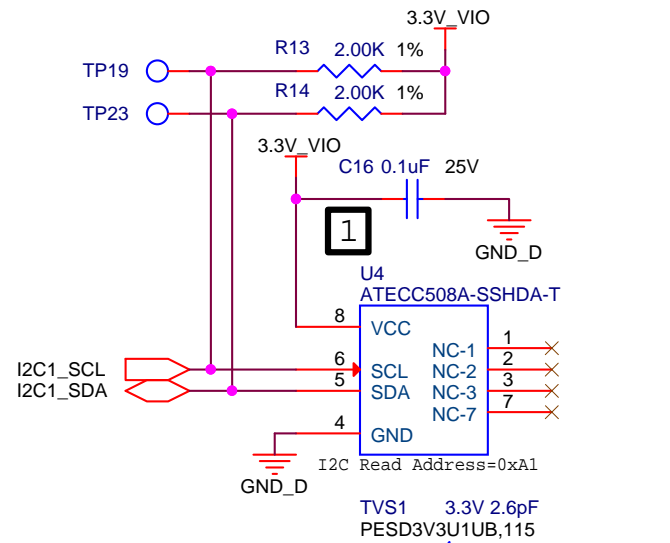
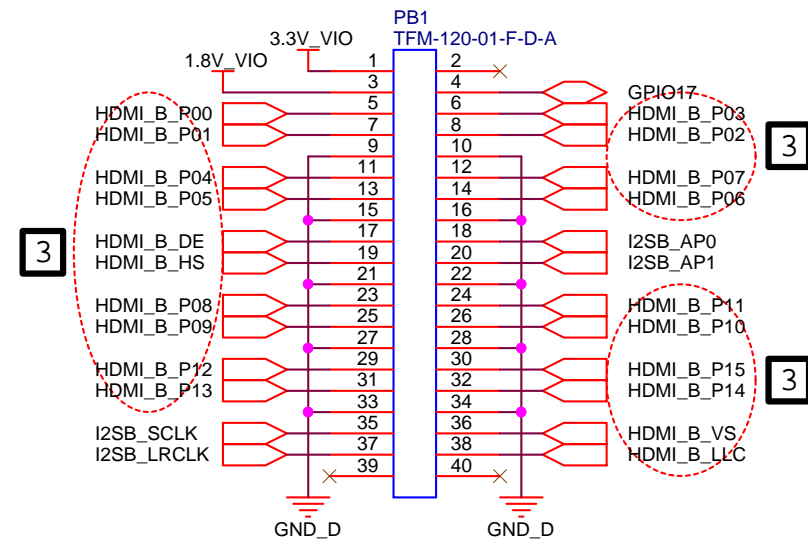
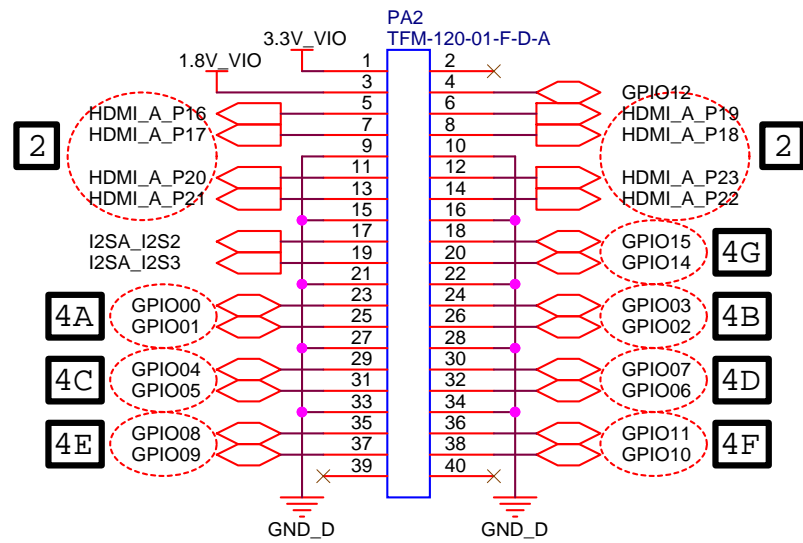
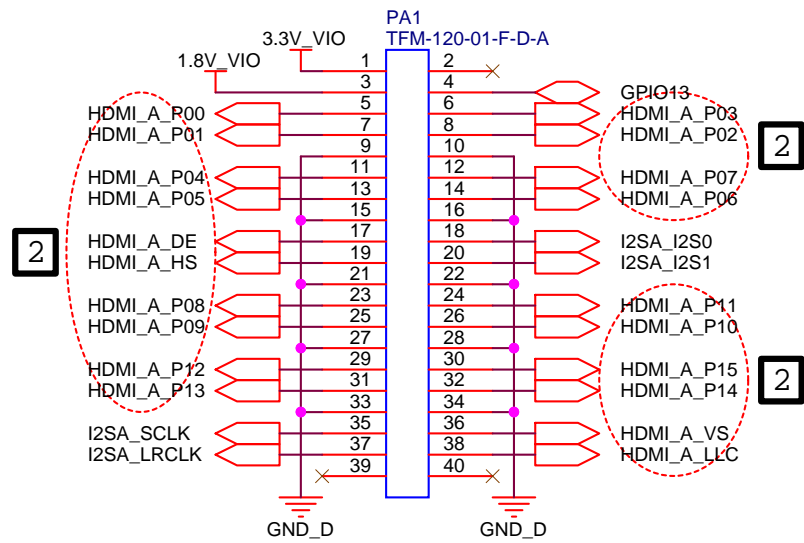


krtkl inc.
350 Townsend Street
Suite 301A
San Francisco, CA 94107
+1 415 857 4857

TITLE
piSmasher SBC
PATH
/
DESCRIPTION
Power Supplies

DRAWN BY	B. Hammond	DATE	10/05/2015
CHECKED BY	J. Weatherbee	DATE	03/30/2016
APPROVED BY	R. Cousins	DATE	03/30/2016

SIZE	DRAWING NO.	REV
B	15081802-01	3.7
SHEET 1 OF 7		



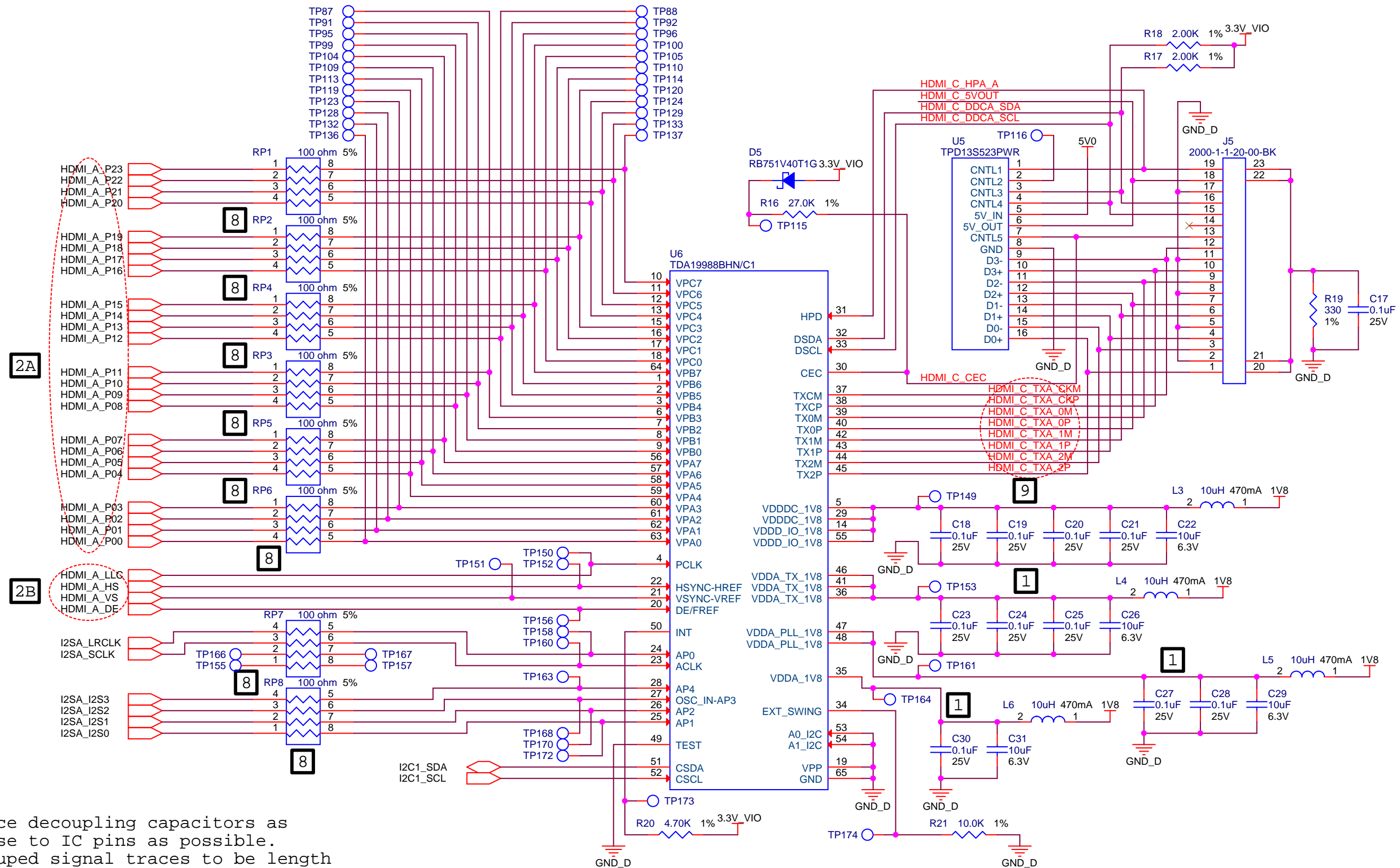
NOTES:

- 1 Place decoupling capacitors as close to IC pins as possible.
- 2 Grouped signal traces to be length matched to within 50mils with 50ohm single-ended characteristic impedance between PA1/PA2 and U6.
- 3 Grouped signal traces to be length matched to within 50mils with 50ohm single-ended characteristic impedance between PB1/PB2 and U8.

- 4 Each grouped pair of differential signals to be length matched to within 10mils with 100ohm characteristic impedance.
- 5 Each grouped pair of differential signals to be length matched to within 10mils with 100ohm characteristic impedance.

- 6 Grouped signal traces to be length matched to within 5mils with 50ohm single-ended characteristic impedance.
- 7 Grouped signal traces to be length matched to within 50mils with 50ohm single-ended characteristic impedance.

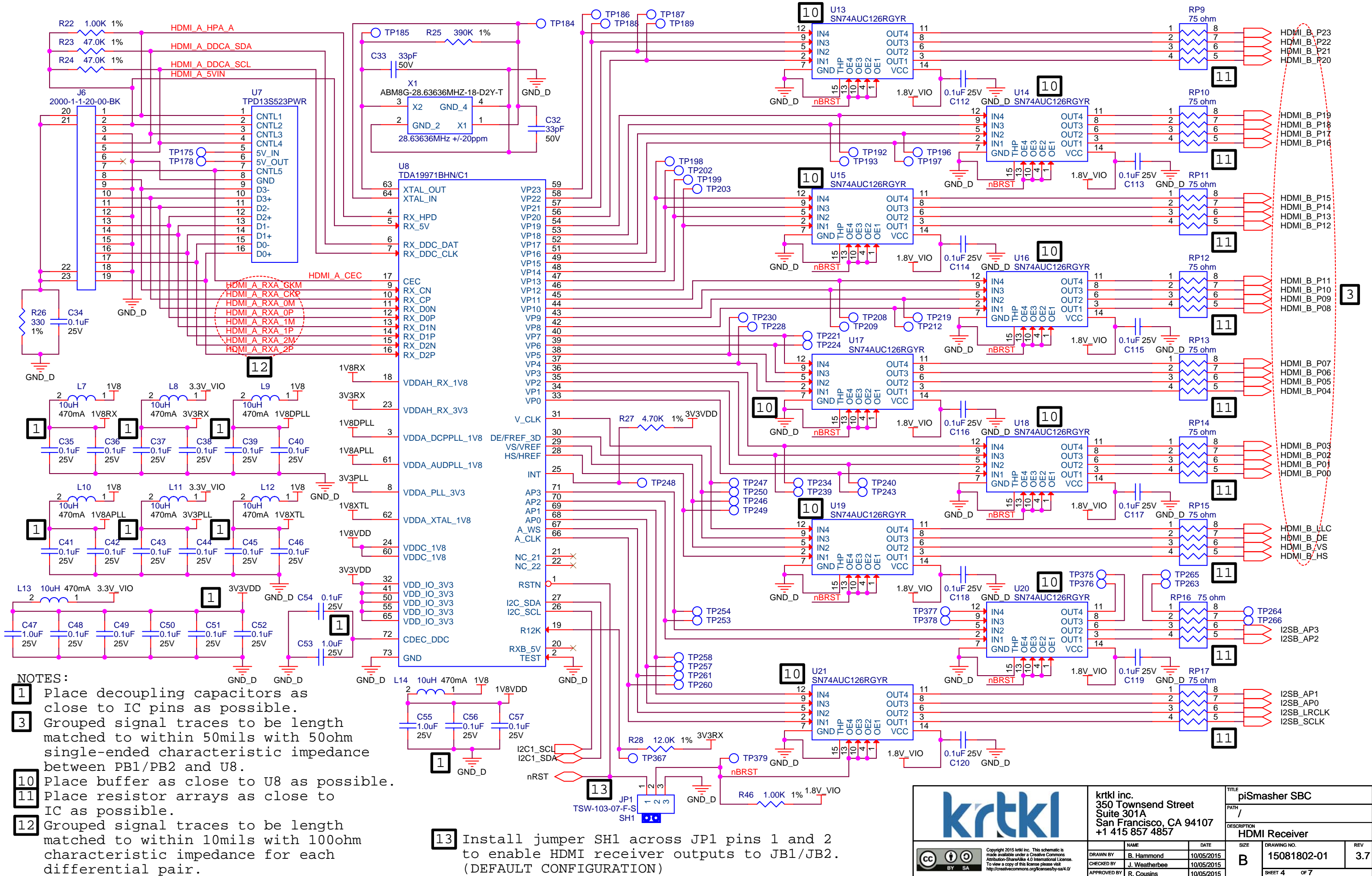
		krtkl inc. 350 Townsend Street Suite 301A San Francisco, CA 94107 +1 415 857 4857		piSmasher SBC	
		Main Interconnect		15081802-01	
15081802-01		3.7		3.7	
15081802-01		3.7		3.7	



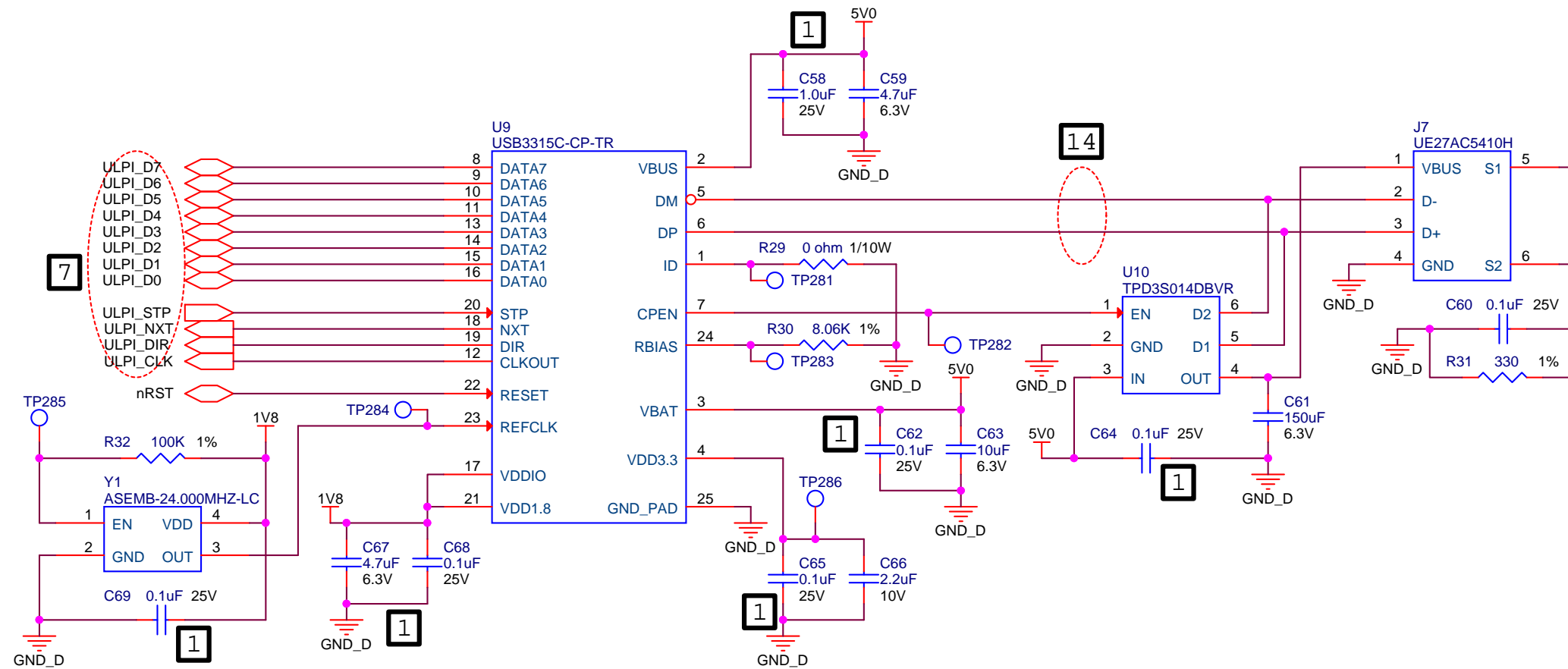
NOTES:

- 1** Place decoupling capacitors as close to IC pins as possible.
- 2A** Grouped signal traces to be length matched to within 50mils with 50ohm single-ended characteristic impedance between PA1/PA2 and U6.
- 2B** Grouped signal traces to be length matched to within 50mils and 220mils ± 20 mils longer than the 2A grouped traces and with 50ohm single-ended characteristic impedance.

- 8** Place resistor arrays as close to IC as possible.
- 9** Grouped signal traces to be length matched to within 10mils with 100ohm characteristic impedance for each differential pair.

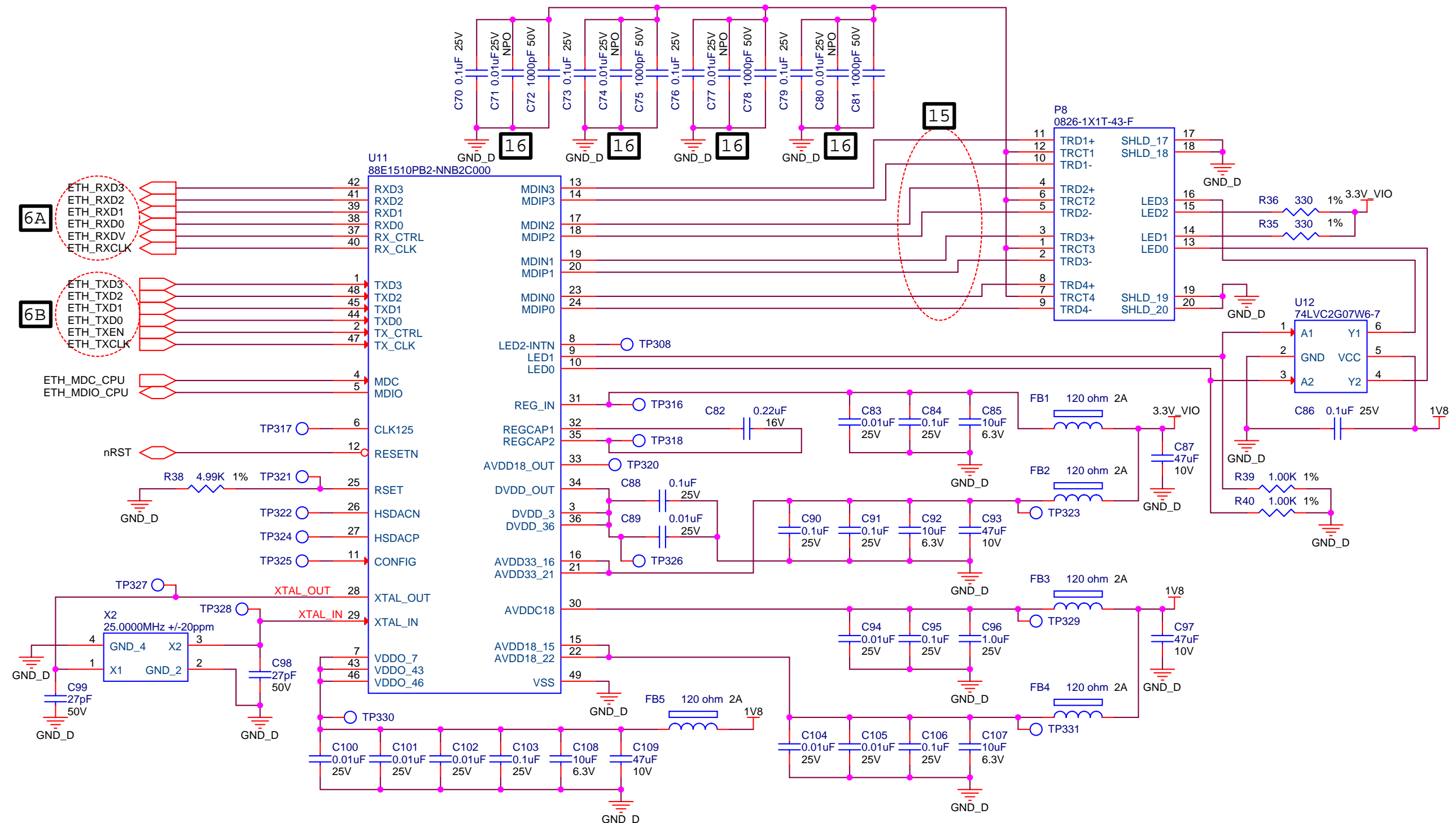


krtkl inc. 350 Townsend Street Suite 301A San Francisco, CA 94107 +1 415 857 4857		TITLE piSmasher SBC	
DRAWN BY B. Hammond	DATE 10/05/2015	PATH /	
CHECKED BY J. Weatherbee	DATE 10/05/2015	DESCRIPTION HDMI Receiver	
APPROVED BY R. Cousins	DATE 10/05/2015	SIZE B	
		DRAWING NO. 15081802-01	REV 3.7
		SHEET 4	OF 7



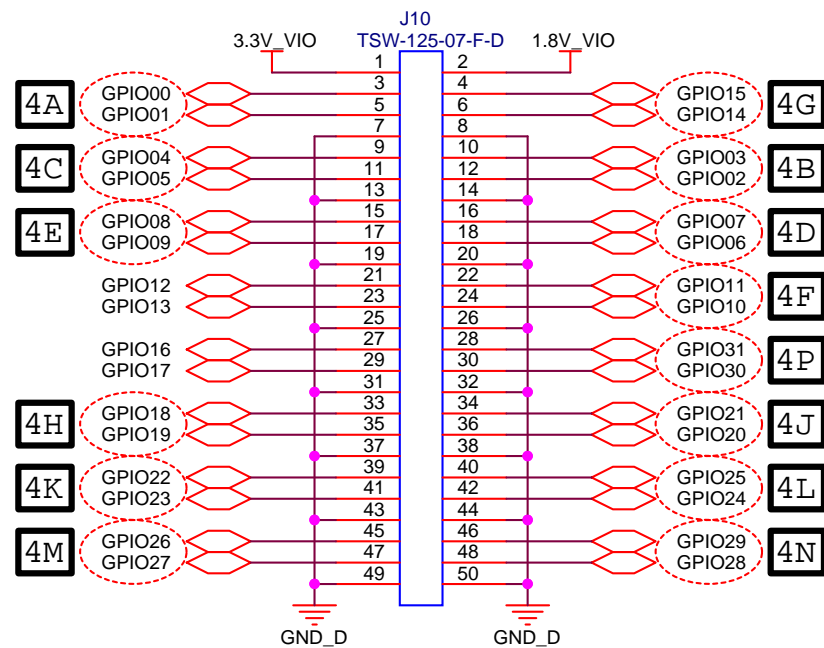
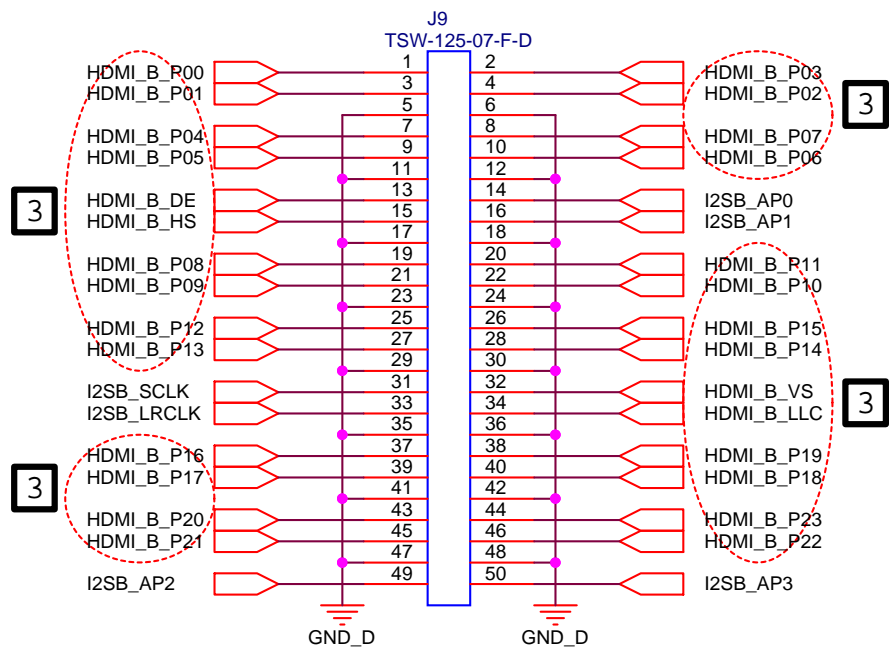
NOTES:

- 1 Place decoupling capacitors as close to IC pins as possible.
- 7 Grouped signal traces to be length matched to within 50mils with 50ohm single-ended characteristic impedance.
- 14 Grouped pair of differential signals to be length matched to within 10mils with 90ohm characteristic impedance.



NOTES:

- 1** Place decoupling capacitors as close to IC pins as possible.
- 6** Grouped signal traces to be length matched to within 50mils with 50ohm single-ended characteristic impedance.
- 15** Grouped signal traces to be length matched to within 10mils with 100ohm characteristic impedance for each differential pair.
- 16** Place each set of three decoupling capacitors as close to Ethernet connector pins as possible.



NOTES:

- 3 Grouped signal traces to be length matched to within 50mils with 50ohm single-ended characteristic impedance.
- 4 Each grouped pair of differential signals to be length matched to within 10mils with 100ohm characteristic impedance.