

NOTES:

1. Project Drawing Numbers:
- Raw PCB 100-0320613-B1
 - Gerber Files 110-0320613-B1
 - PCB Design Files 120-0320613-B1
 - Assembly Drawing 130-0320613-B1
 - Fab Drawing 140-0320613-B1
 - Schematic Drawing 150-0320613-B1
 - PCB Film 160-0320613-B1
 - Bill of Materials 170-0320613-B1
 - Schematic Design Files 180-0320613-B1
 - Functional Specification 210-0320613-B1
 - PCB Layout Guidelines 220-0320613-B1
 - Assembly Rework 320-0320613-B1

SATA 4 CHANNEL HSMC

REV	DATE	PAGES	DESCRIPTION
A	07/08/2009	All	Rev A Release
B	09/08/2009		

PAGE	DESCRIPTION
1	Title, Notes, Block Diagram, Revision History
2	Power / EEPROM
3	LED / Switches
4	SATA CLOCKS
5	HSMC Connector
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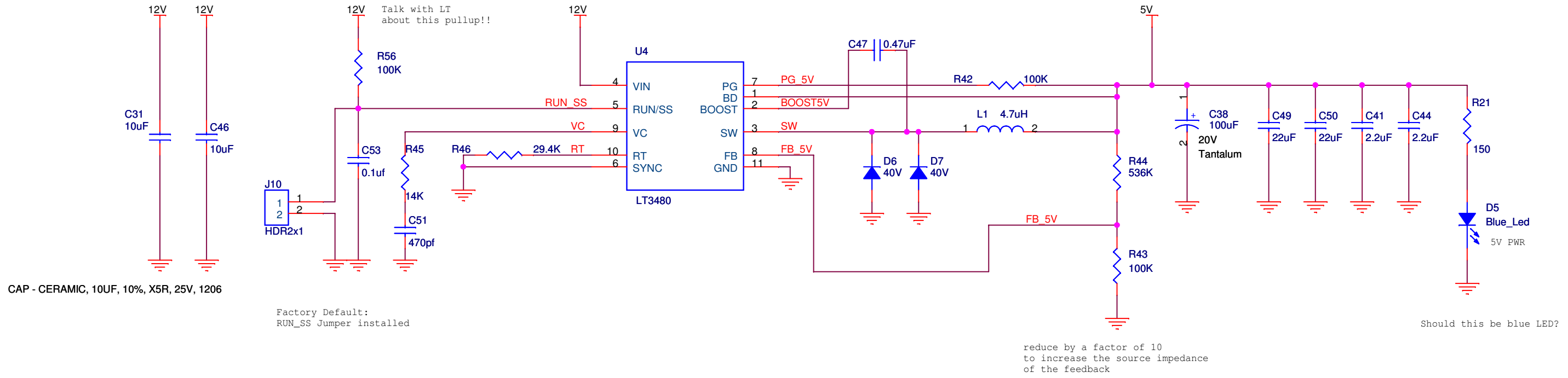
Title: **SATA 4CHANNEL HSMC**

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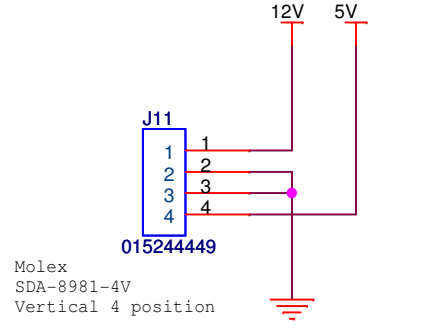
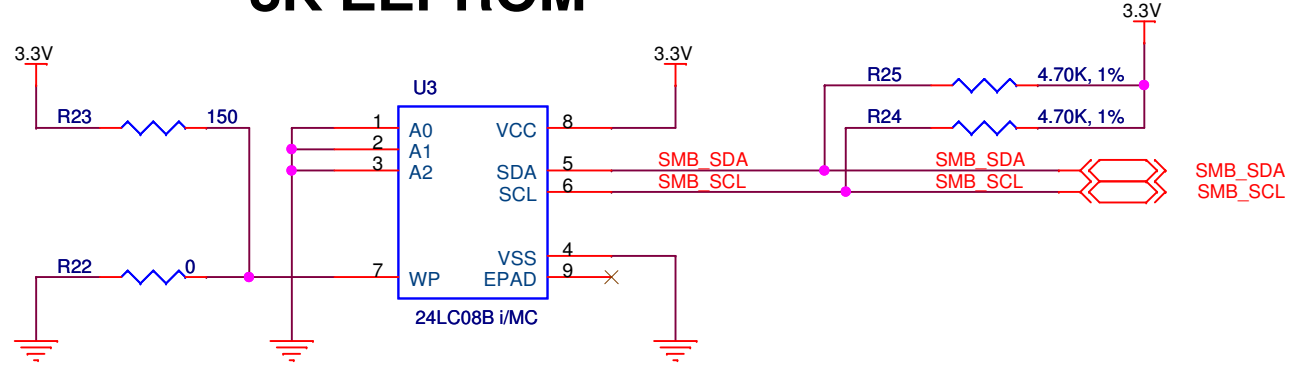
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POWER

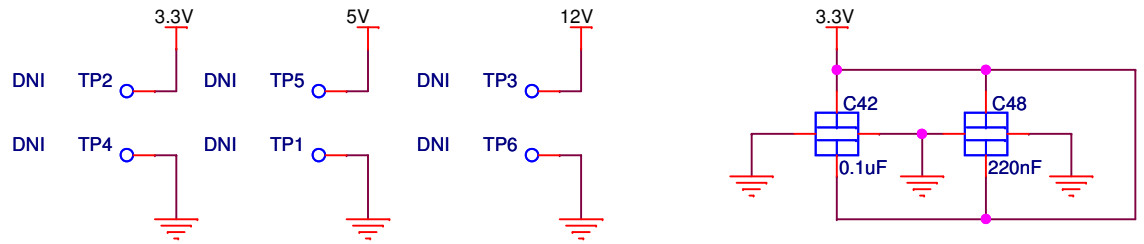


CAP - CERAMIC, 10UF, 10%, X5R, 25V, 1206

8K EEPROM

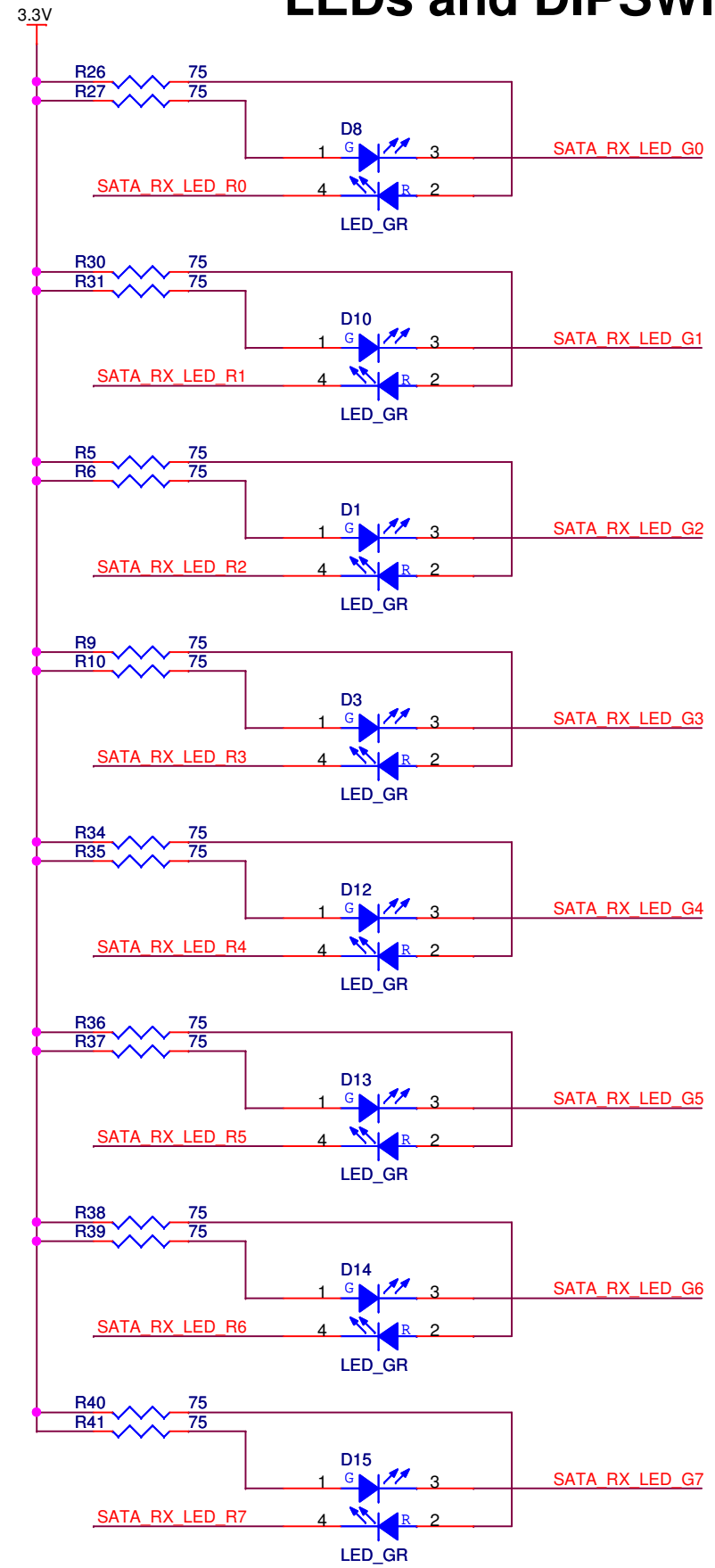
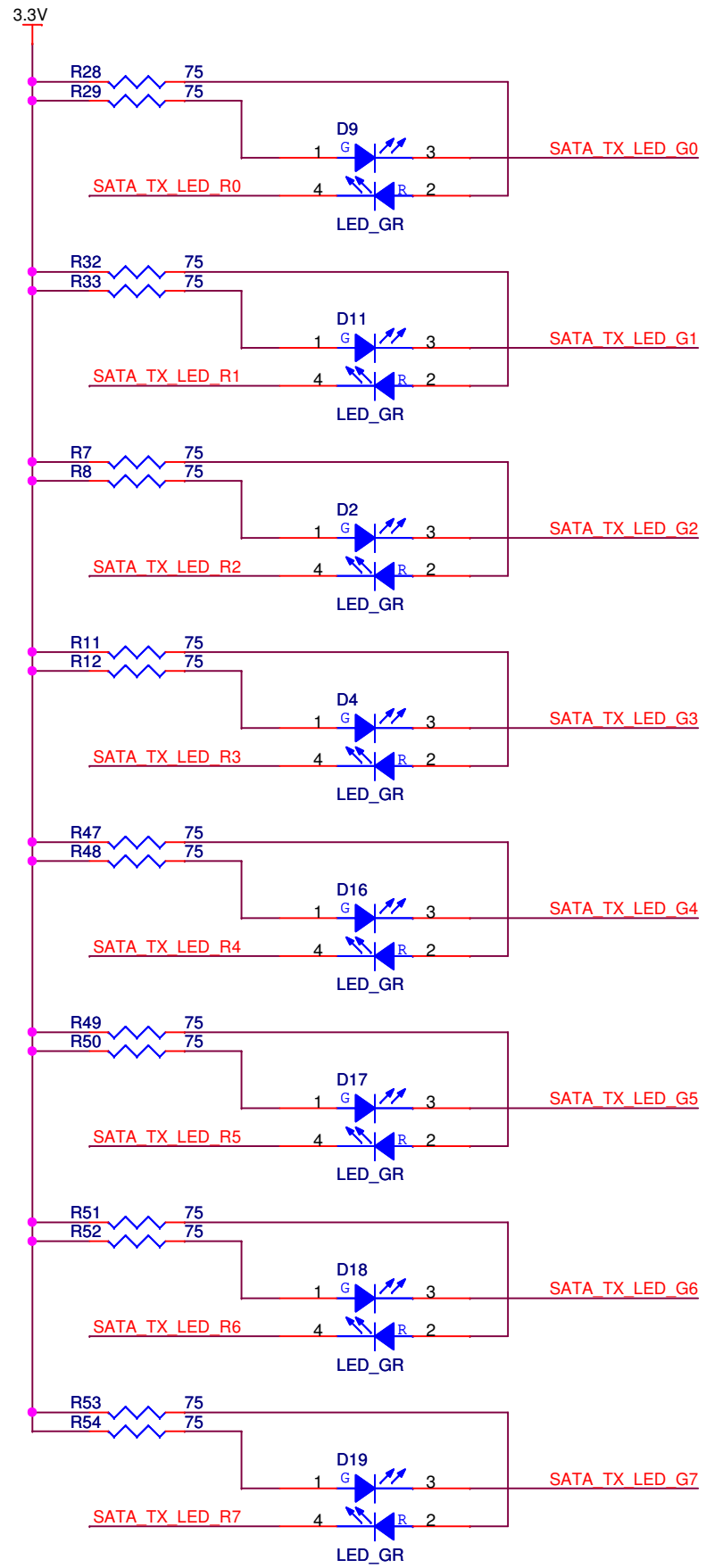


This connector is to power
disk drives and can source 1A

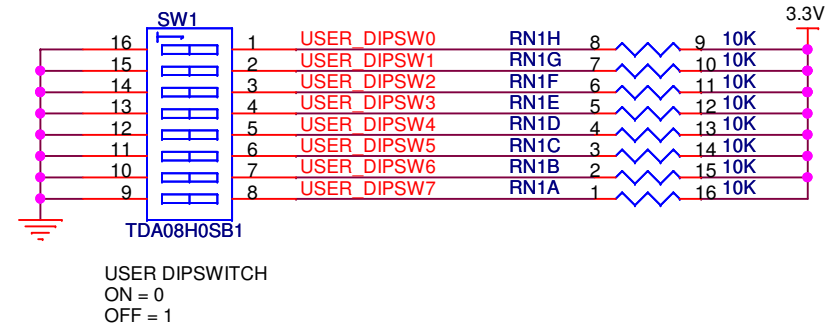


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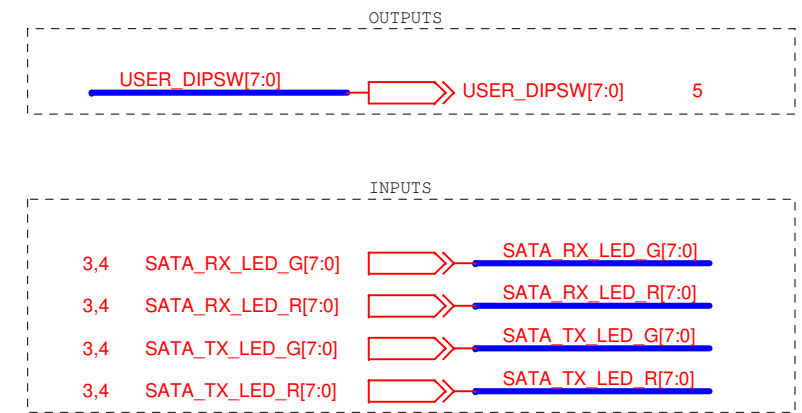
LEDs and DIPSWITCHES



Rotate SW 3 in layout for easy labels?



USER DIPSWITCH
ON = 0
OFF = 1



Bi-color LED for single channel SATA connector
Place TX LED on pin one side of connector
Place RX LED on pin 7 side of the connector

Place LEDs the outer edge close to the connector they are associated with



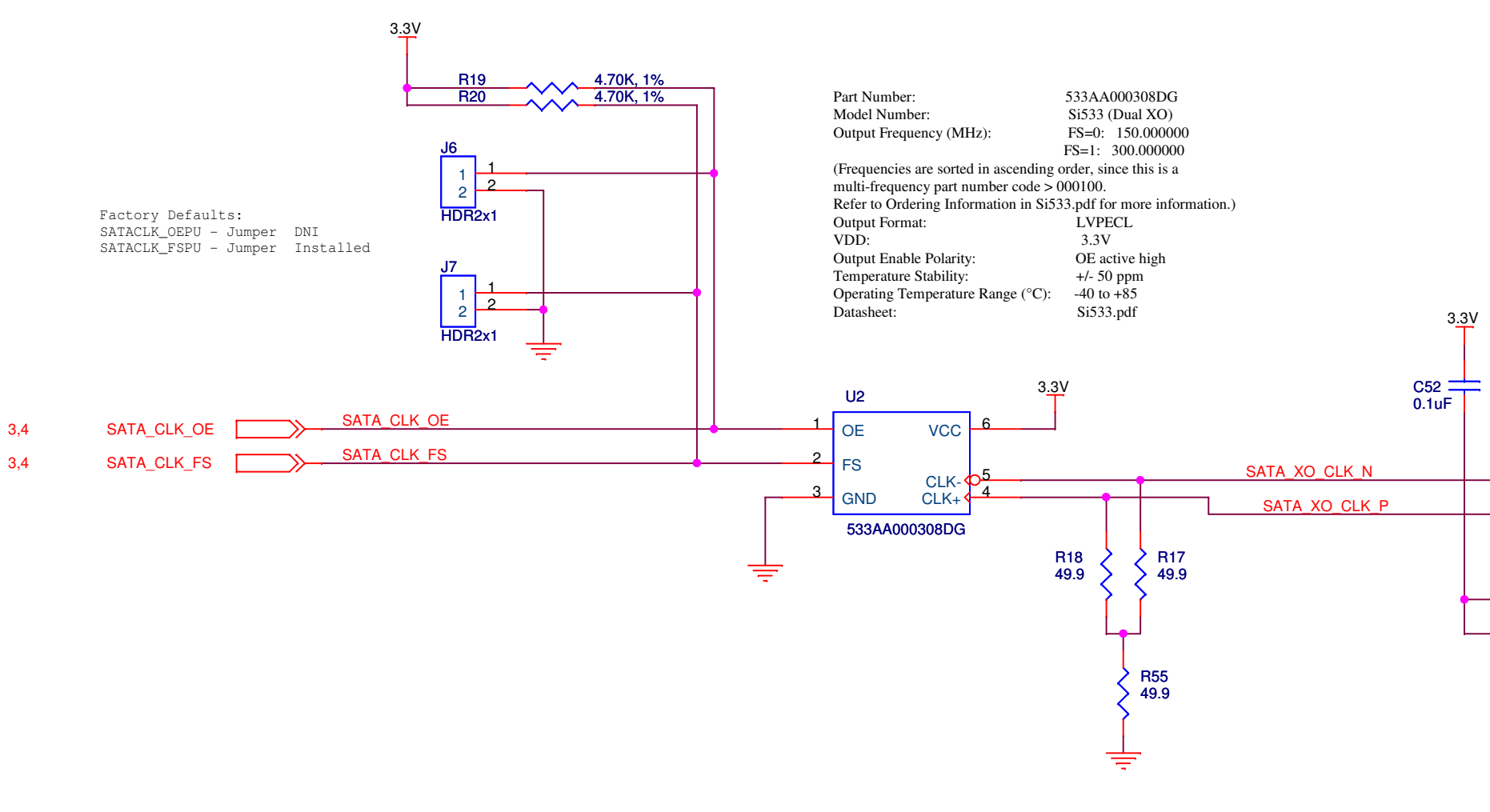
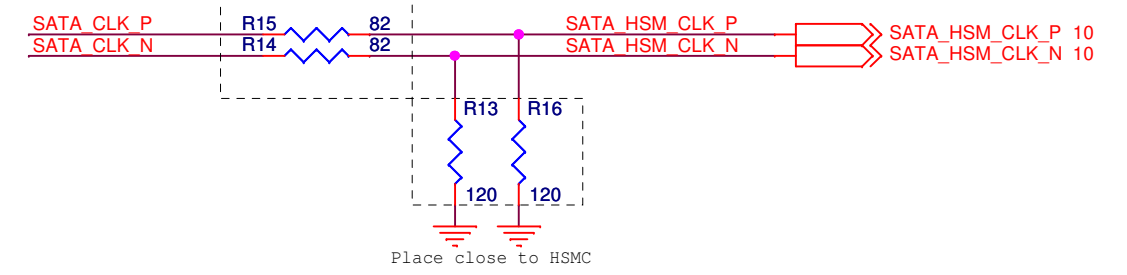
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SATA CLOCKS

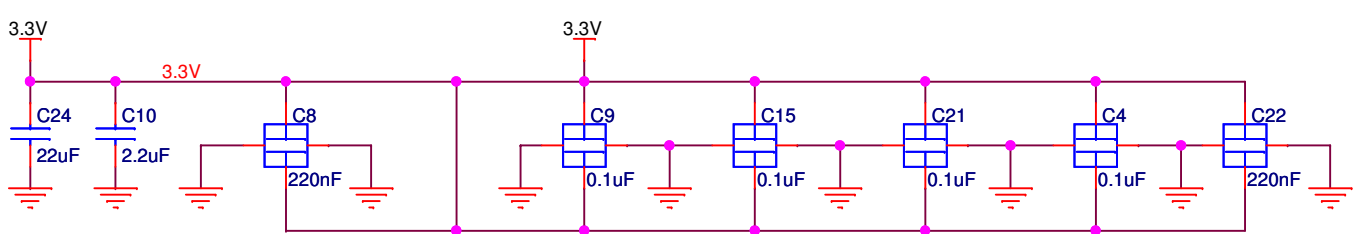
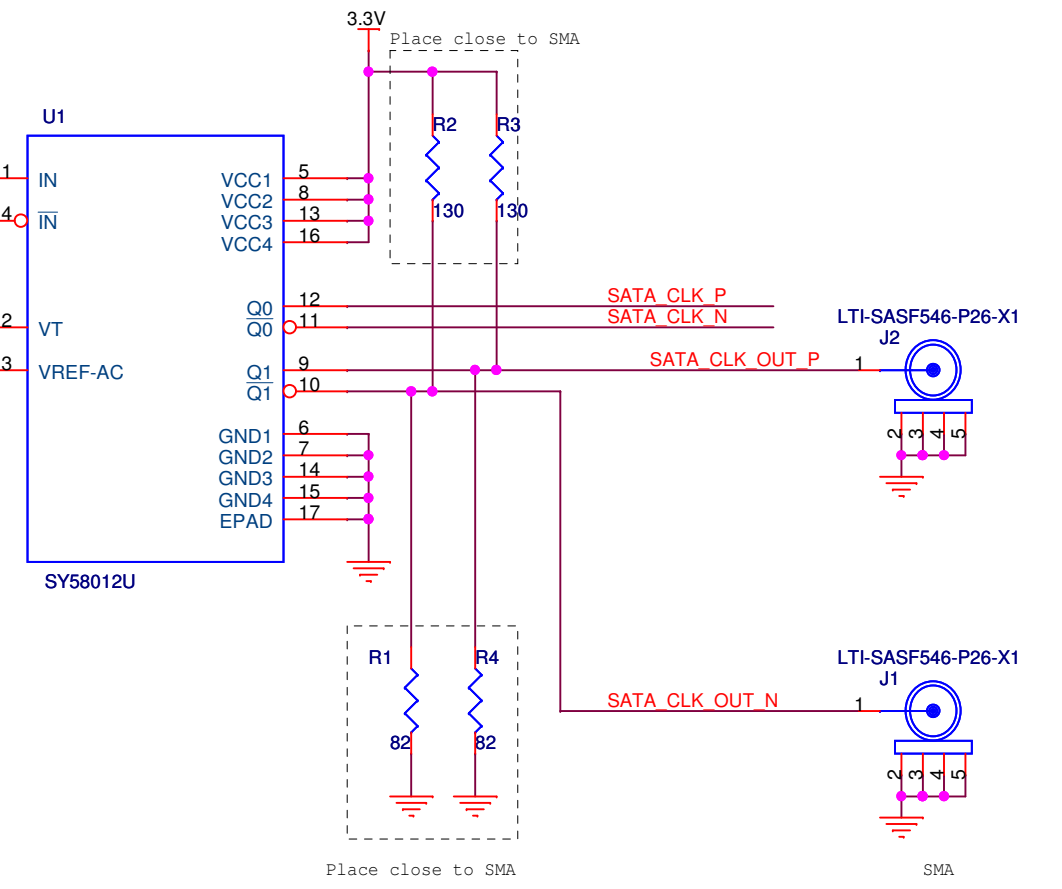
Factory Defaults:
 SATA_CLK_OEPU - Jumper DNI
 SATA_CLK_FSPU - Jumper Installed

Part Number: 533AA000308DG
 Model Number: Si533 (Dual XO)
 Output Frequency (MHz): FS=0: 150.000000
 FS=1: 300.000000
 (Frequencies are sorted in ascending order, since this is a multi-frequency part number code > 000100. Refer to Ordering Information in Si533.pdf for more information.)
 Output Format: LVPECL
 VDD: 3.3V
 Output Enable Polarity: OE active high
 Temperature Stability: +/- 50 ppm
 Operating Temperature Range (°C): -40 to +85
 Datasheet: Si533.pdf

Place close to the driver
 SY58012U

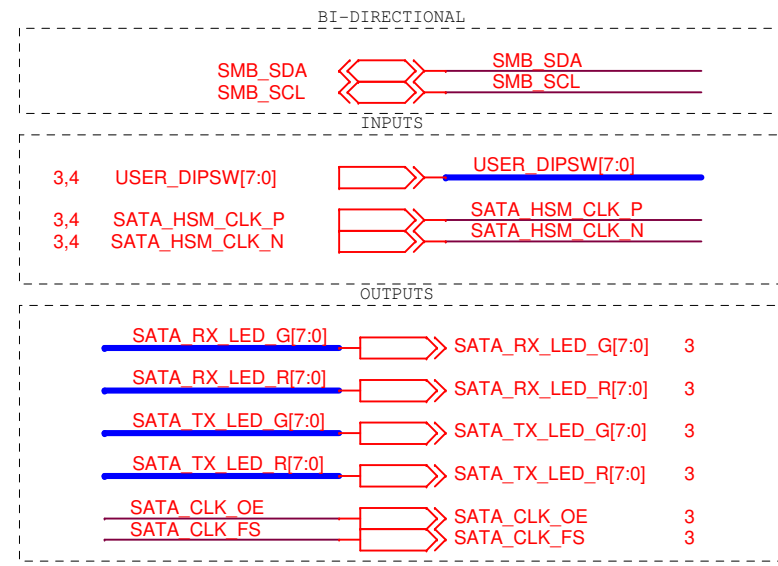


use a dual foot print to be able to adjust the frequencies???

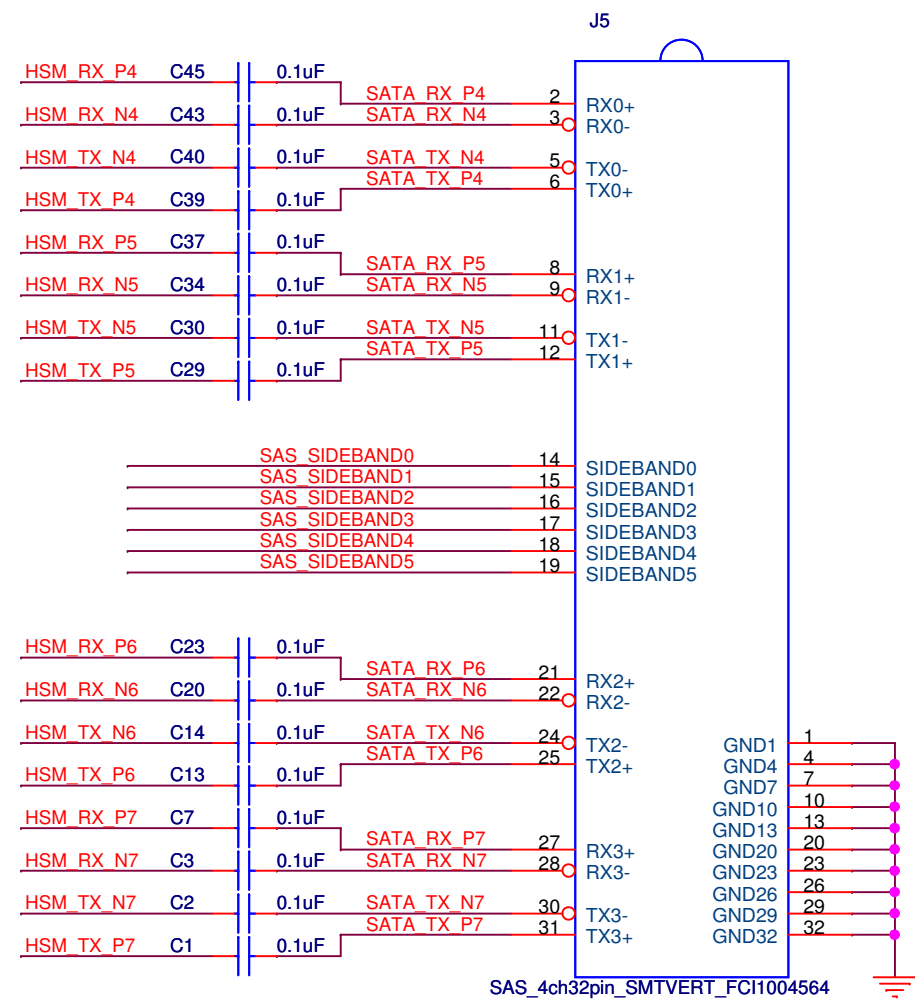
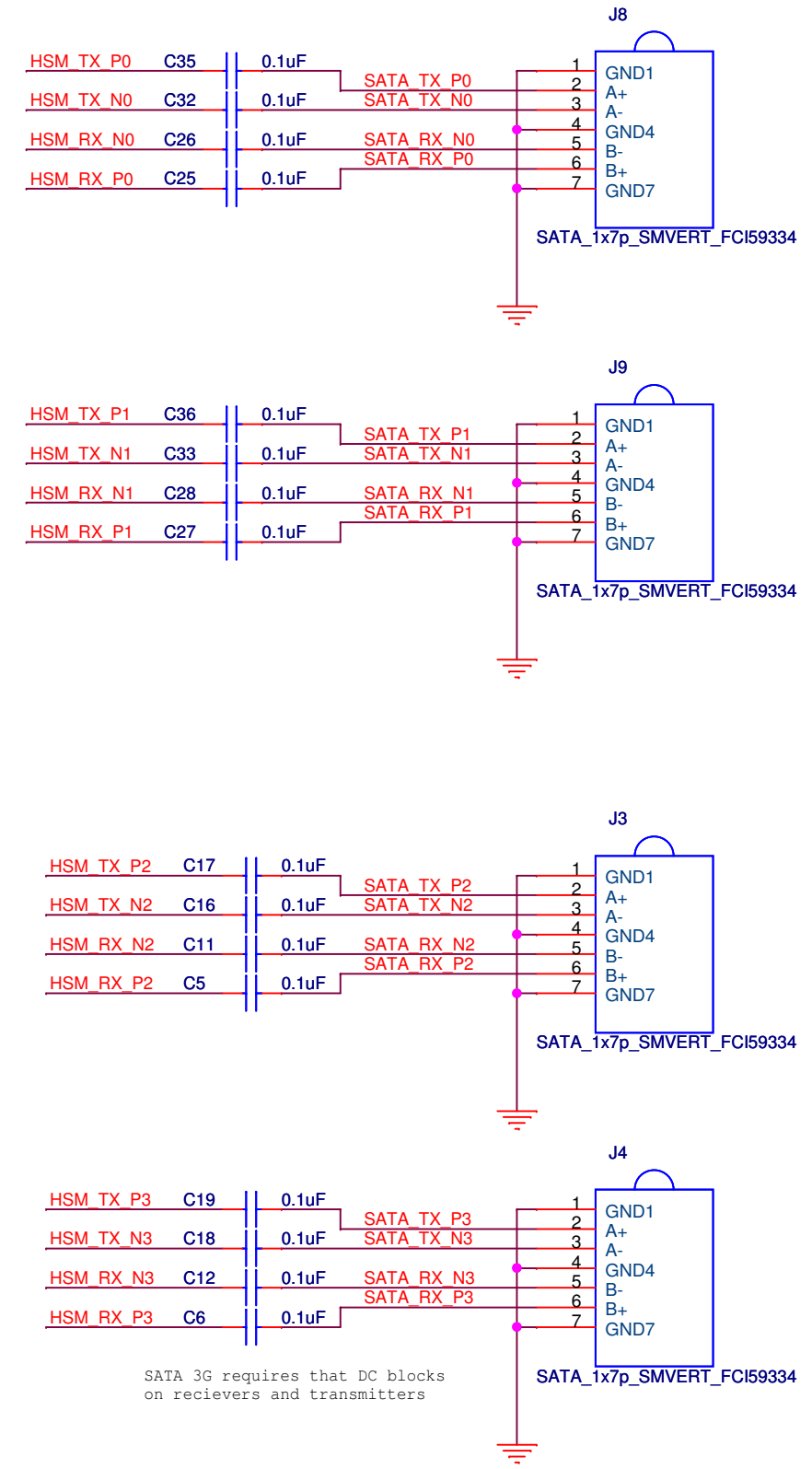


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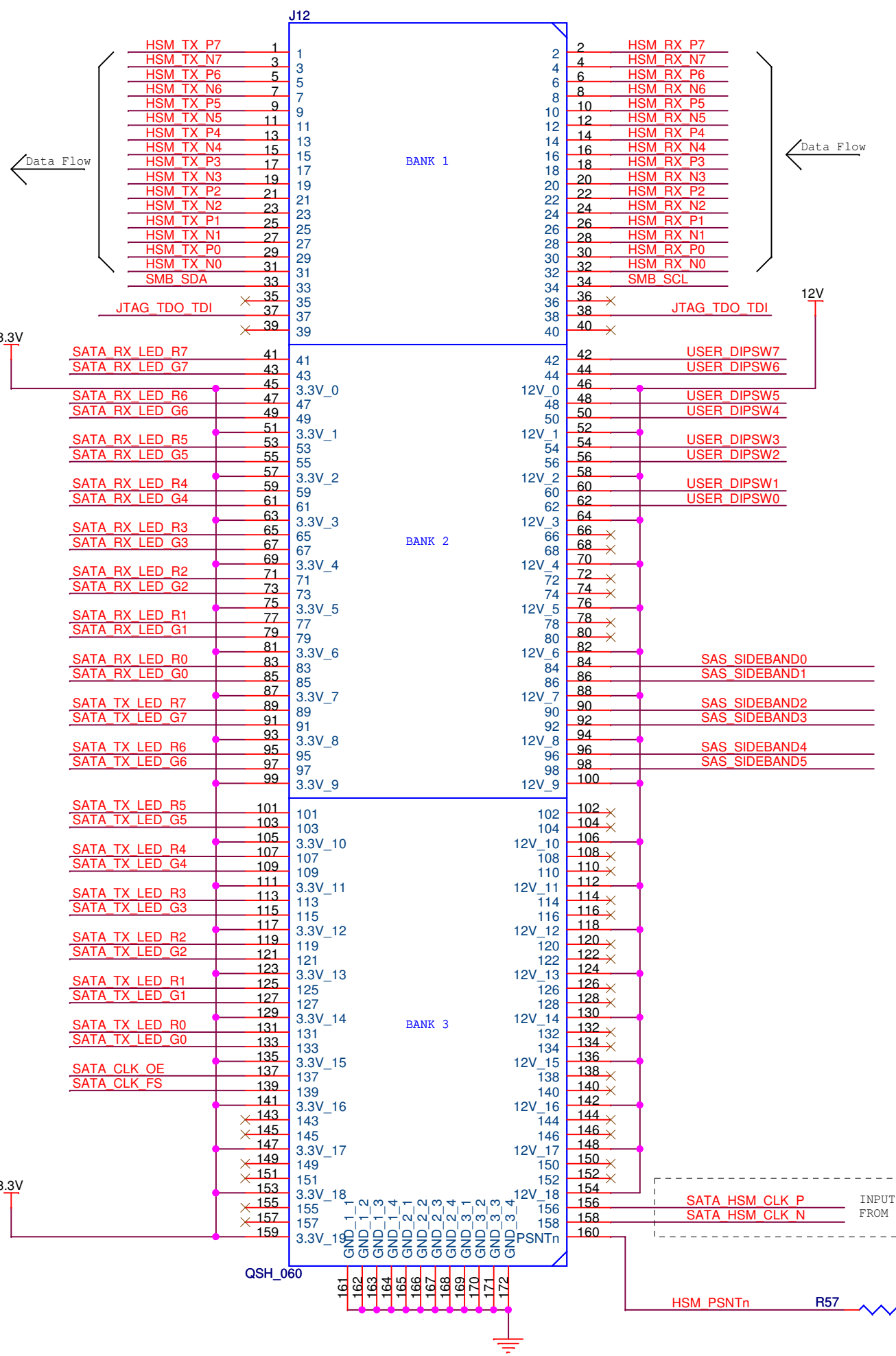
CONNECTORS



SATA 1 Channel Connectors



SAS / SATA 4 Channel Connector



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