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NANORACK LASER

Schematic V1.2.0



Project: BEE-PC1	Sub-system: NANORACK_LASER.PrjPcb	
Design by: Hung Nguyen D.	Sheet title: INDEX.SchDoc	Sheet 1 of 6
Checked by: Bao Bui Q.	Document No: 1	Size: A3
Approved by: Vu Pham	Revision: V1.2.0	Date: 1/8/2025

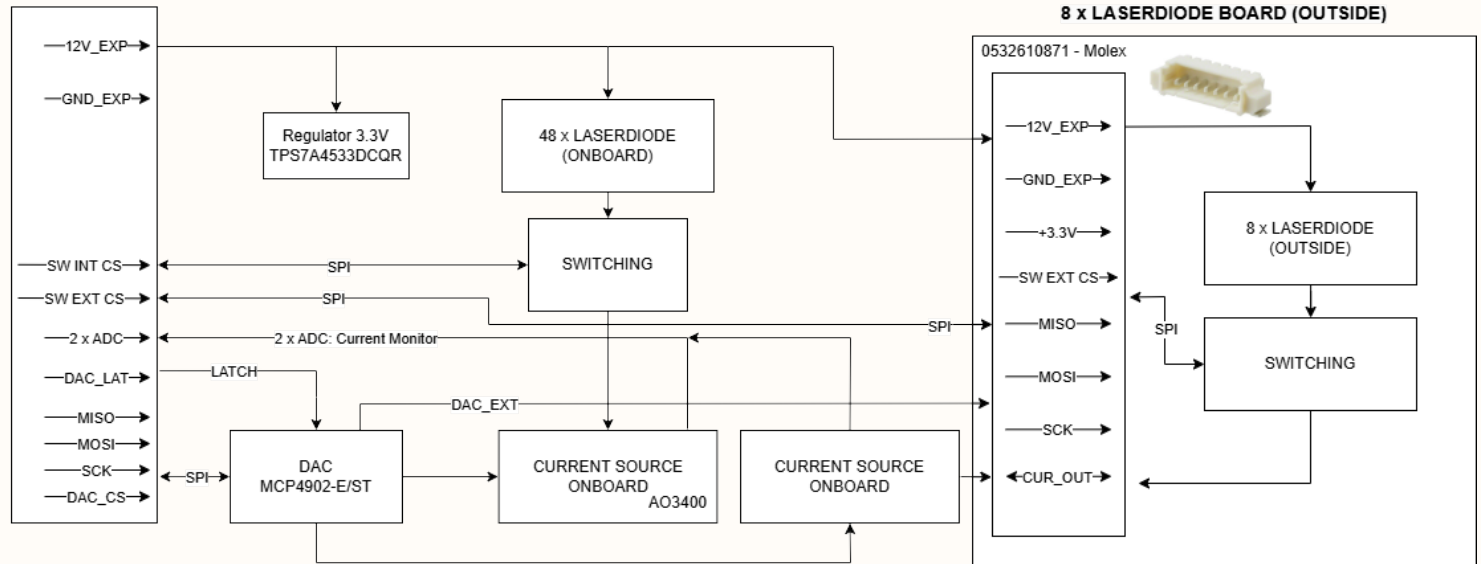
2x7 PIN
CONNECTOR
board to board

+12V_EXP	+12V_EXP
GND_EXP	+12V_EXP
GND_EXP	SPI_MISO
SPI_SCK	SPI_MOSI
DAC_CS	SW_INT_CS
DAC_LATCH	SW_EXT_CS
ADC_1	ADC_2

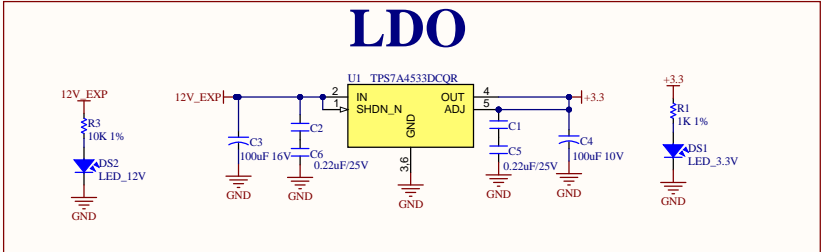
77313-101-14LF - Amphenol ICC (FCI)



LASERDIODE

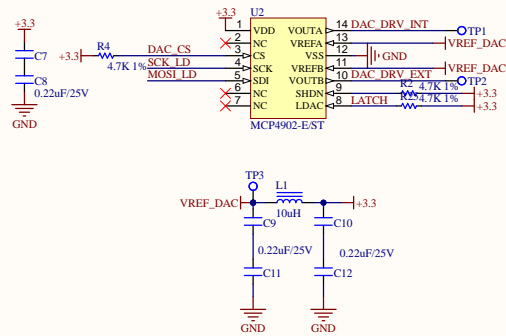


Project: BEE-PC1	Sub-system: NANORACK_LASER.PrjPcb	
Design by: Hung Nguyen D.	Sheet title: BLOCK_DIAGRAM.SchDoc	Sheet 2 of 6
Checked by: Bao Bui Q.	Document No: 2	Size: A3
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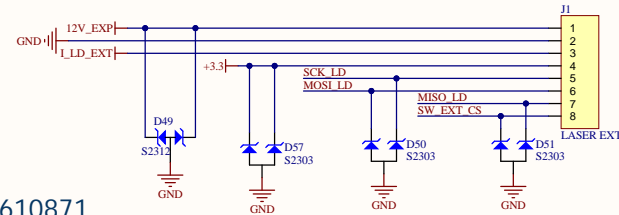


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Design by: Hung Nguyen D.	Sheet title: LDO.SchDoc	Sheet 3 of 6
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DAC



LASER EXT CONNECTOR

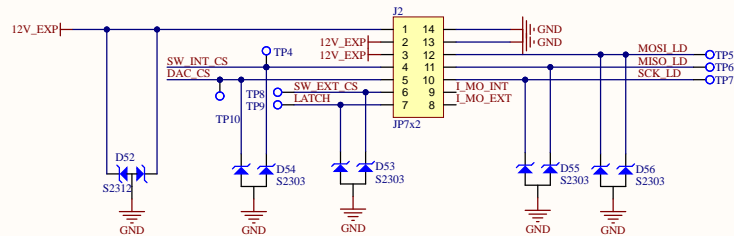


Molex - 0532610871

- ELECTRICAL:
CURRENT RATING: 1A/CONTACT
VOLTAGE RATING: 125V/CONTACT
- ENVIRONMENTAL:
TEMPERATURE RANGE: -40°C TO +105°C
- PHYSICAL:
PITCH-MATING: 0.049" (1.25mm)
- WIRE:
WIRE SIZE: 24 AWG
MAX CURRENT: 1A per Wire
ISULATION MATERIAL: PTFE
- MATING:
Molex - 0510210800



BOARD TO BOARD CONNECTOR TO EXP BOARD

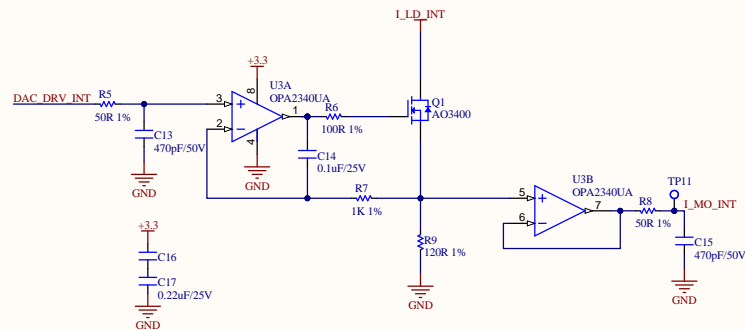


Amphenol ICC - 77313-101-14LF

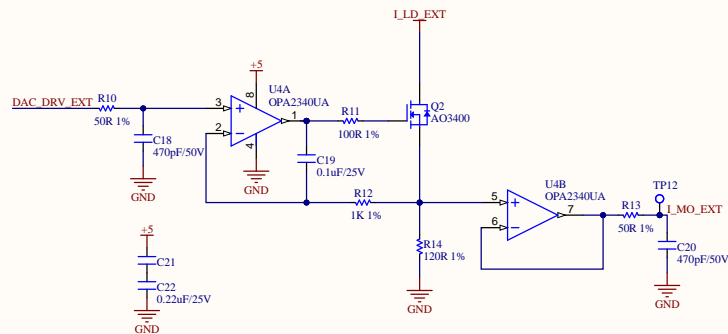
- ELECTRICAL:
CURRENT RATING: 3A/CONTACT
VOLTAGE RATING: 1500VAC/CONTACT
- ENVIRONMENTAL:
TEMPERATURE RANGE: -65°C TO +130°C
- PHYSICAL:
PITCH-MATING: 0.1" (2.54mm)
- MATING:
MAX CURRENT: 5.7A/CONTACT
Samtec Inc. - ESQ-107-37-G-D



Project: BEE-PC1	Sub-system: NANORACK_LASER.PrjPcb	
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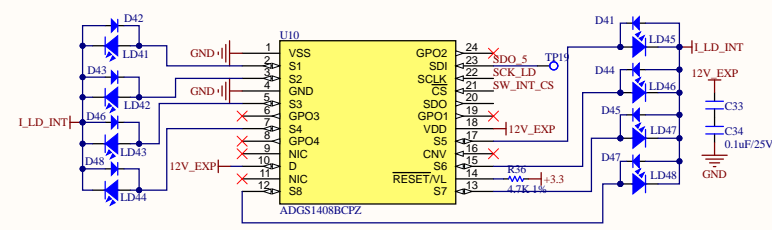
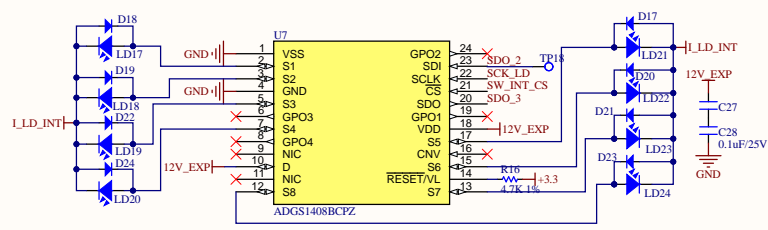
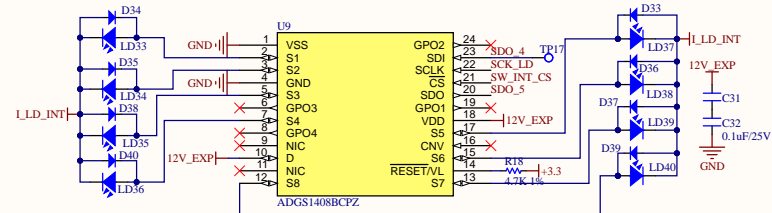
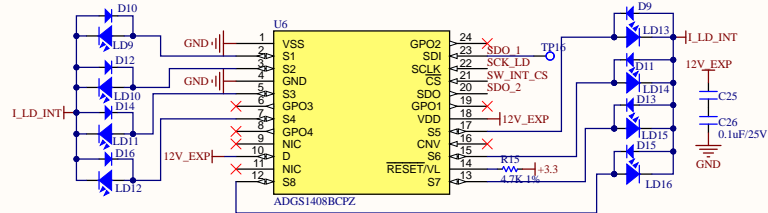
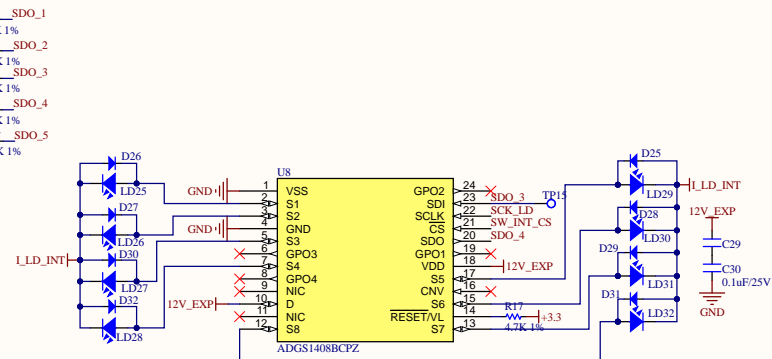
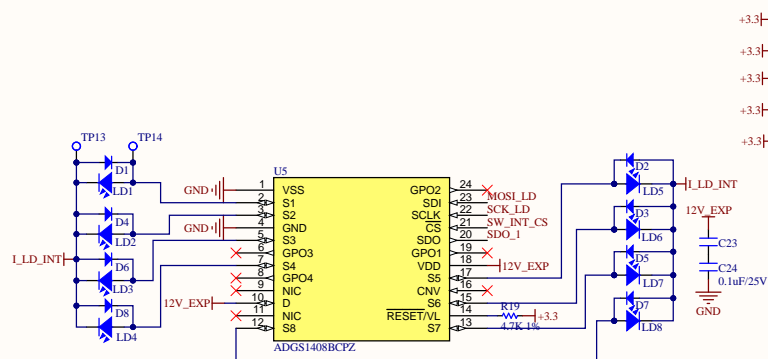
DRIVER_INT



DRIVER_EXT



Project: BEE-PC1	Sub-system: NANORACK_LASER.PrjPcb	
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Project: BEE-PC1	Sub-system: NANORACK_LASER.PrjPcb	
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