

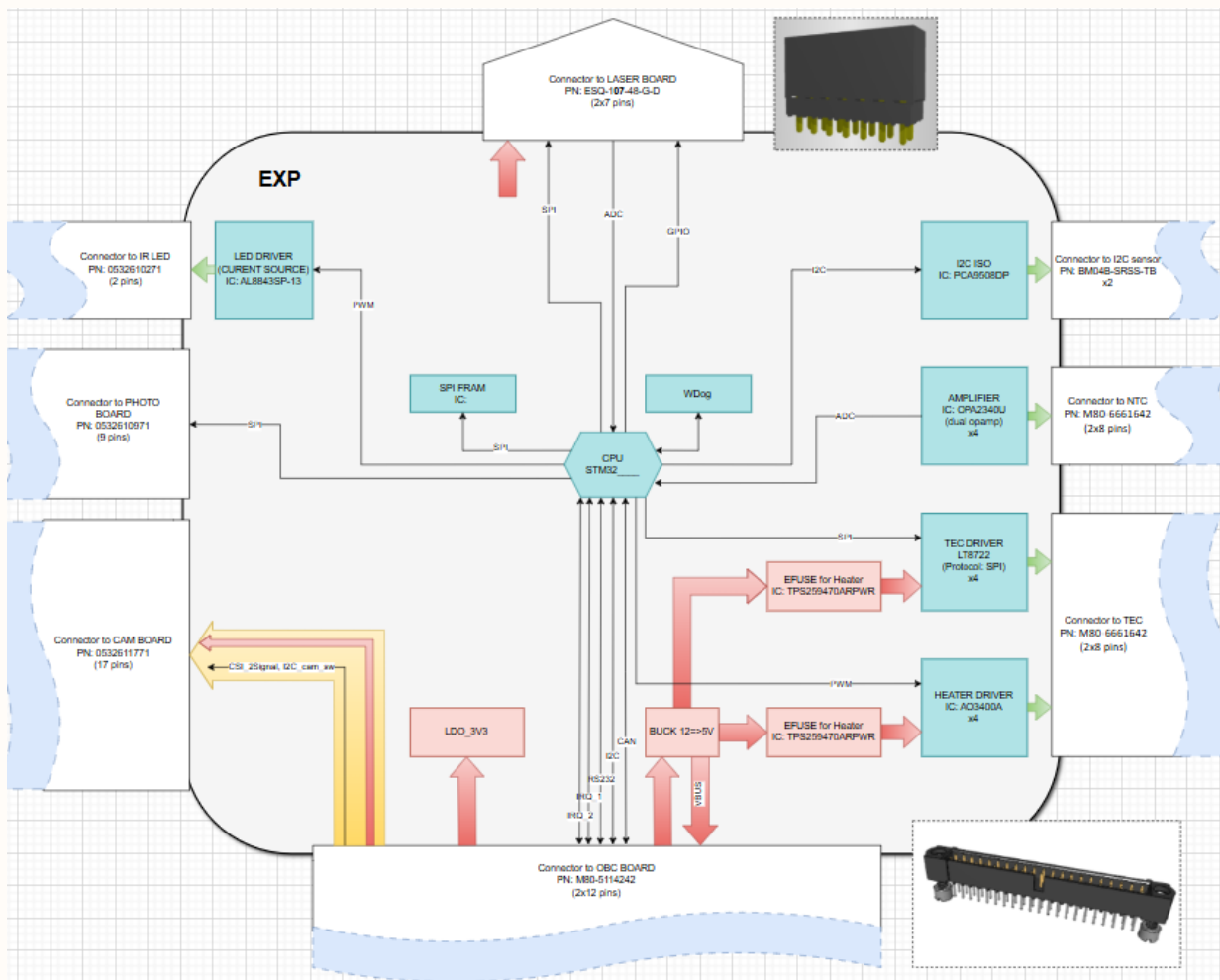
EXPERIMENT MAIN BOARD

INDEX

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11	I2C SENSOR
12	MCU



Project: PEE-PC1	Sub-system: NANORACK_EXP_CONTROLLER	
Design by: SANG HUYNH	Sheet title: INDEX.SchDoc	Sheet 1 of 12
Checked by: BAO BUI Q.	Document No: 1	Size: A3
Approved by: VU PHAM	Revision: V1.0.0	Date:



Project: **PEE-PC1** Sub-system: **NANORACK_EXP_CONTROLLER**

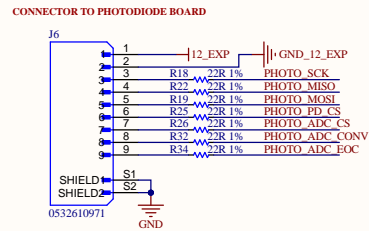
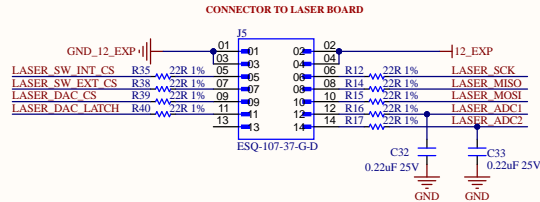
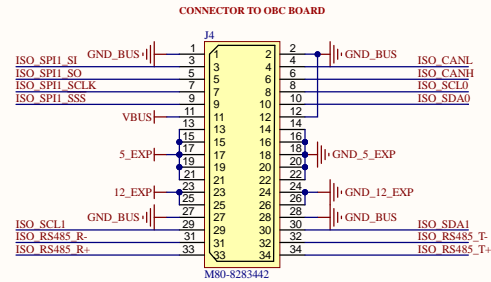
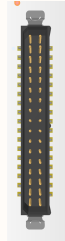
Design by: **SANG HUYNH** Sheet title: **BLOCK_DIAGRAM.SchDoc** Sheet **2** of **12**

Checked by: **BAO BUI Q.** Document No: **2** Size: **A3**

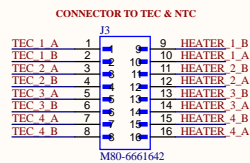
Approved by: **VU PHAM** Revision: **V1.0.0** Date:

Harwin Inc. M80-8283442

- ELECTRICAL:
CURRENT RATING: 2.2A/CONTACT
VOLTAGE RATING: 800V/CONTACT
- ENVIRONMENTAL:
TEMPERATURE RANGE: -55°C TO +125°C
- PHYSICAL:
PITCH-MATING: 0.079" (2.00mm)
- WIRE:
WIRE SIZE: 24 AWG
MAX CURRENT: 1A per Wire
ISULATION MATERIAL: PTFE
- MATING:
Harwin Inc. M80-8883405



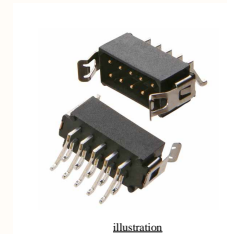
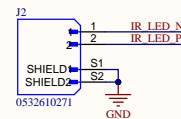
Project: PEE-PC1	Sub-system: NANORACK_EXP_CONTROLLER	
Design by: SANG HUYNH	Sheet title: HEADERS_1.SchDoc	Sheet 3 of 12
Checked by: BAO BUI Q.	Document No: 3	Size: A3
Approved by: VU PHAM	Revision: V1.0.0	Date:



Harwin Inc. M80-6661642

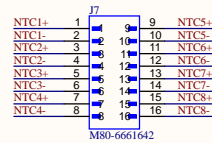
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VOLTAGE RATING: 800V/CONTACT
- ENVIRONMENTAL:
TEMPERATURE RANGE: -55°C TO +125°C
- PHYSICAL:
PITCH-MATING: 0.079" (2.00mm)
- WIRE:
WIRE SIZE: 24 AWG
MAX CURRENT: 2A per Wire
ISULATION MATERIAL: PTFE
- MATING:
Harwin Inc. M80-8881606

CONNECTOR TO HEATER & LED



Harwin Inc. M80-6661642

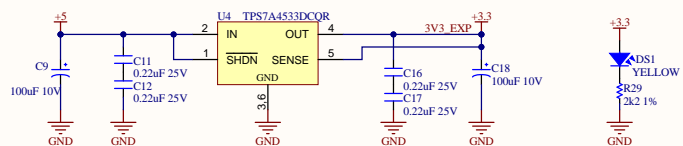
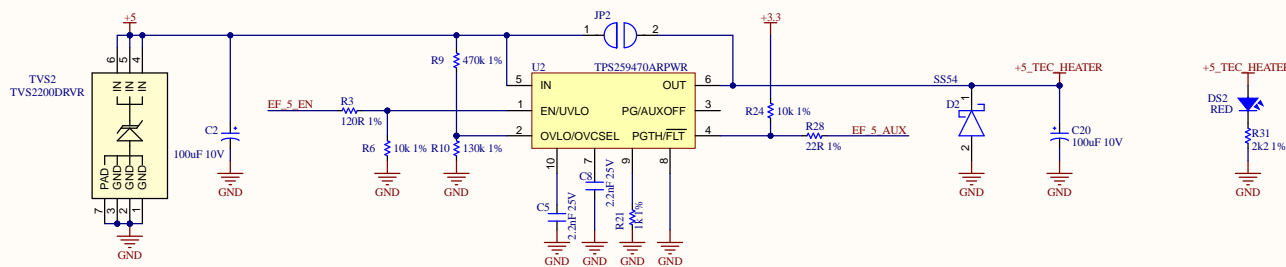
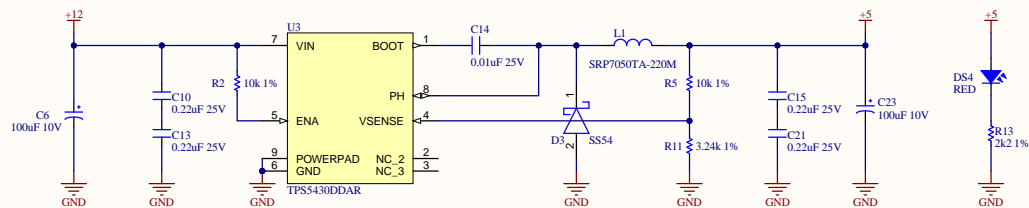
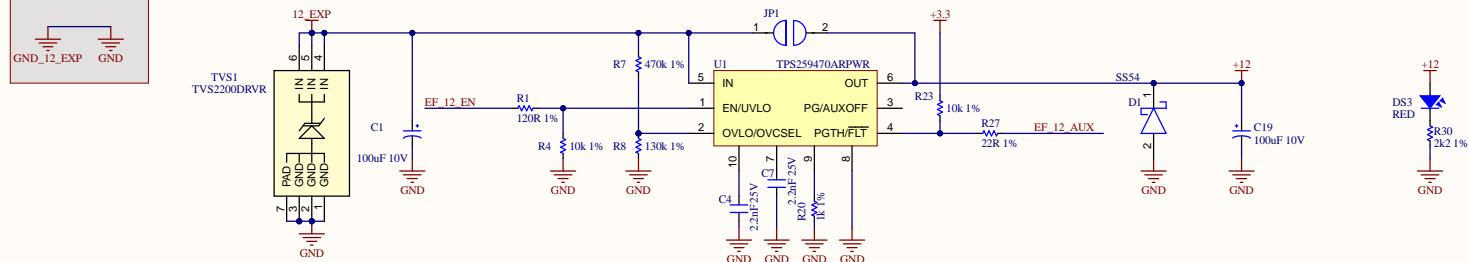
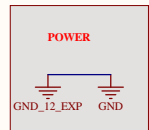
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VOLTAGE RATING: 800V/CONTACT
- ENVIRONMENTAL:
TEMPERATURE RANGE: -55°C TO +125°C
- PHYSICAL:
PITCH-MATING: 0.079" (2.00mm)
- WIRE:
WIRE SIZE: 24 AWG
MAX CURRENT: 2A per Wire
ISULATION MATERIAL: PTFE
- MATING:
Harwin Inc. M80-8881606



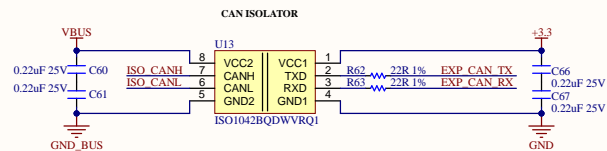
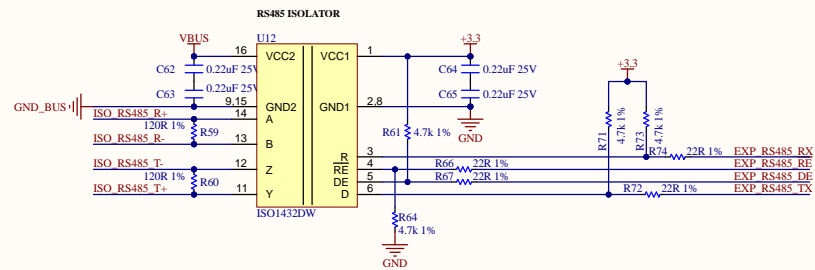
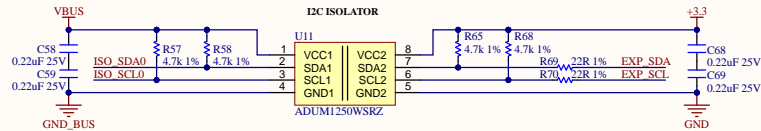
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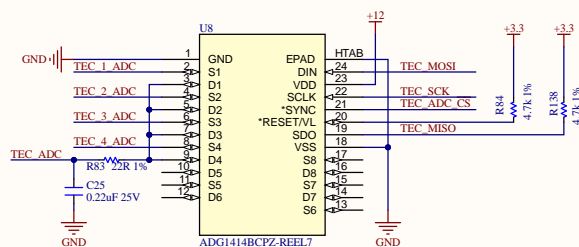
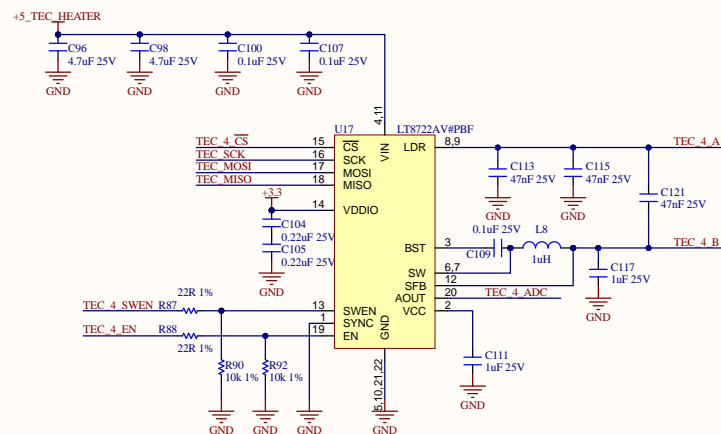
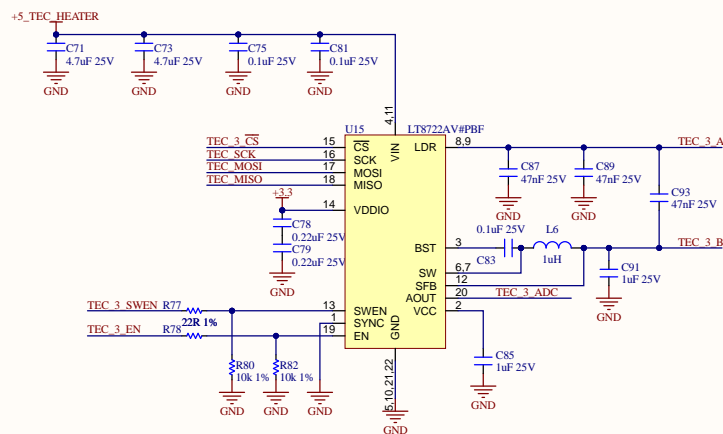
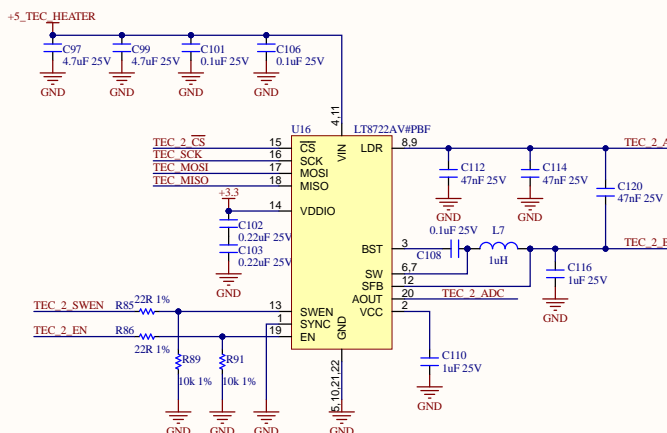
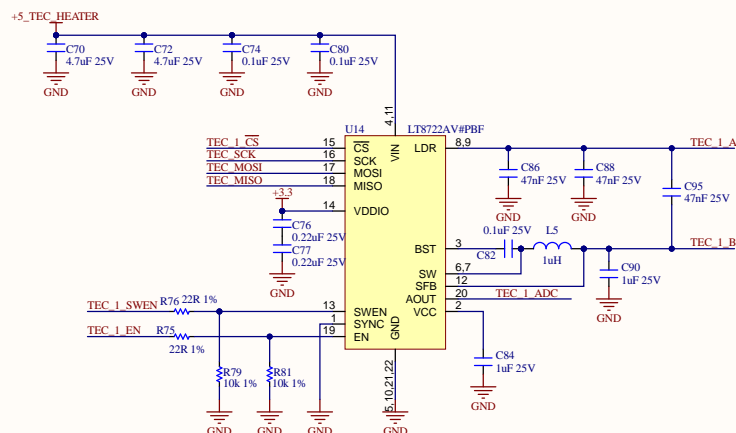
Project: PEE-PC1	Sub-system: NANORACK_EXP_CONTROLLER	
Design by: SANG HUYNH	Sheet title: HEADERS_2.SchDoc	Sheet 4 of 12
Checked by: BAO BUI Q.	Document No: 4	Size: A3
Approved by: VU PHAM	Revision: V1.0.0	Date:



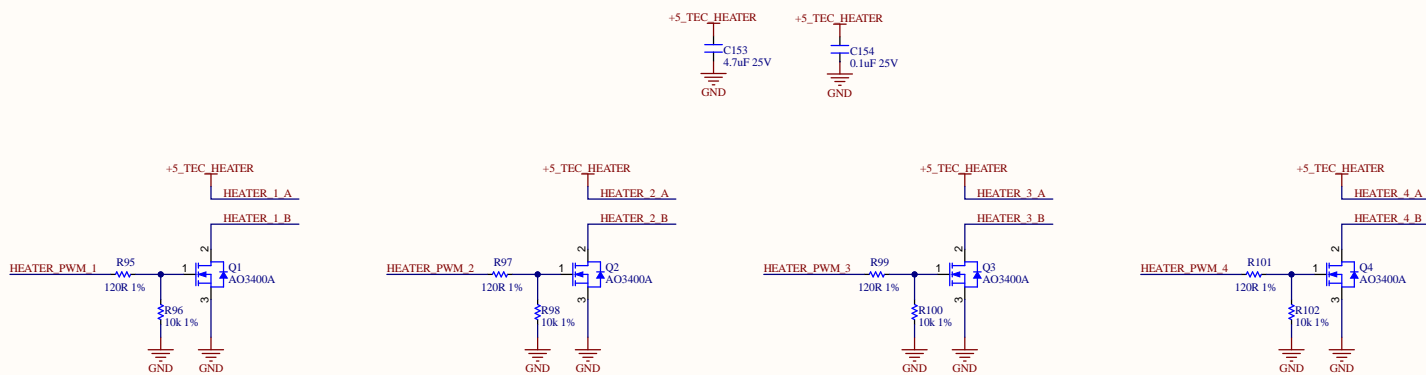
Project: PEE-PC1	Sub-system: NANORACK_EXP_CONTROLLER	
Design by: SANG HUYNH	Sheet title: POWERchDoc.SchDoc	Sheet 5 of 12
Checked by: BAO BUI Q.	Document No: 5	Size: A3
Approved by: VU PHAM	Revision: V1.0.0	Date:



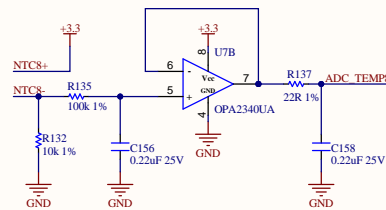
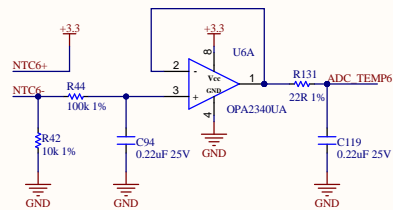
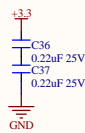
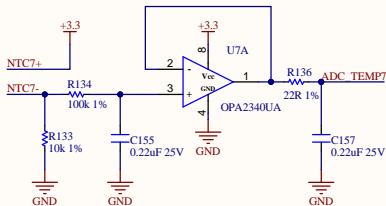
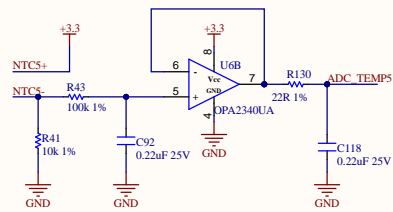
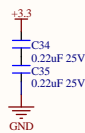
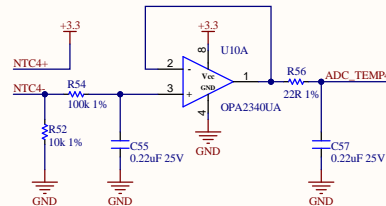
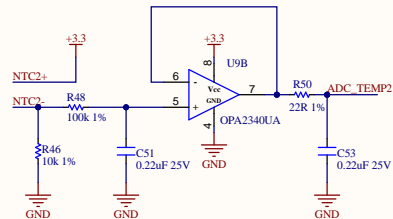
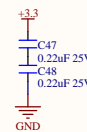
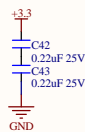
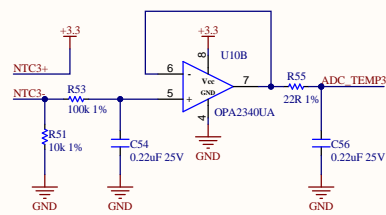
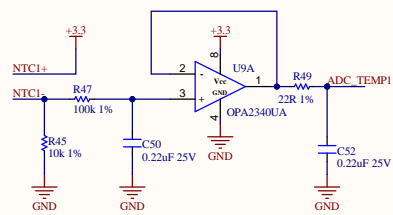
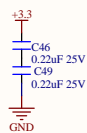
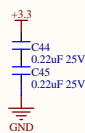
Project: PEE-PC1	Sub-system: NANORACK_EXP_CONTROLLER	
Design by: SANG HUYNH	Sheet title: ISO_COM.SchDoc	Sheet 6 of 12
Checked by: BAO BUI Q.	Document No: 6	Size: A3
Approved by: VU PHAM	Revision: V1.0.0	Date:



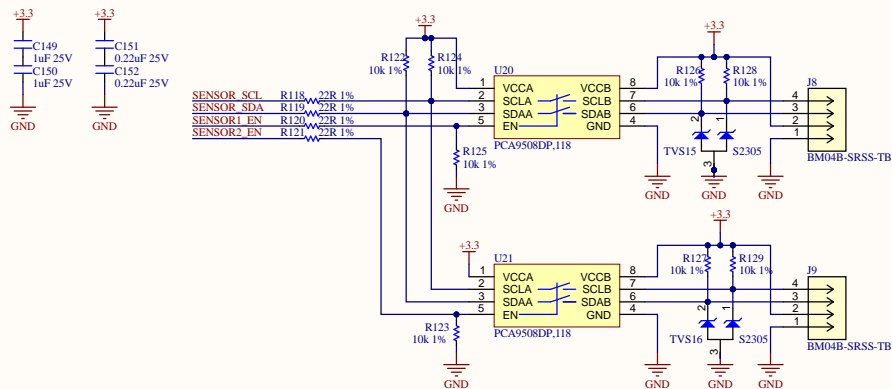
Project: PEE-PC1	Sub-system: NANORACK_EXP_CONTROLLER	
Design by: SANG HUYNH	Sheet title: TECS_DRIVER.SchDoc	Sheet 7 of 12
Checked by: BAO BUI Q.	Document No: 7	Size: A3
Approved by: VU PHAM	Revision: V1.0.0	Date:



Project: PEE-PC1	Sub-system: NANORACK_EXP_CONTROLLER	
Design by: SANG HUYNH	Sheet title: HEATER.SchDoc	Sheet 8 of 12
Checked by: BAO BUI Q.	Document No: 8	Size: A3
Approved by: VU PHAM	Revision: V1.0.0	Date:

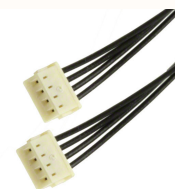


Project: PEE-PC1	Sub-system: NANORACK_EXP_CONTROLLER	
Design by: SANG HUYNH	Sheet title: NTC.SchDoc	Sheet 9 of 12
Checked by: BAO BUI Q.	Document No: 9	Size: A3
Approved by: VU PHAM	Revision: V1.0.0	Date:

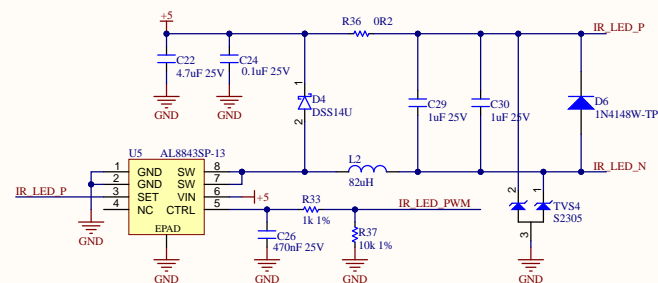


JST Sales America Inc. BM04B-SRSS-TB

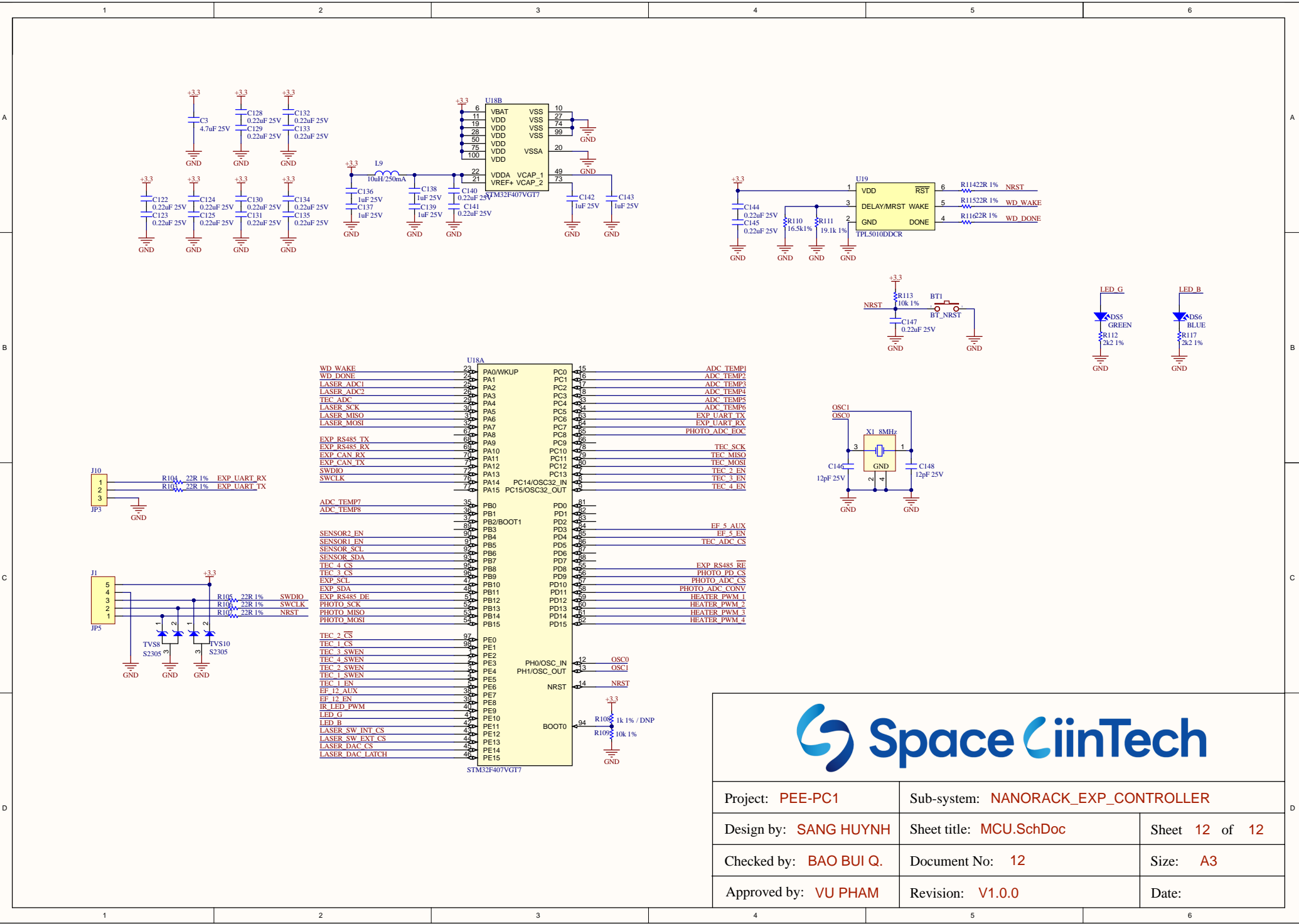
- ELECTRICAL:
CURRENT RATING: 1.0A AC/DC/CONTACT
VOLTAGE RATING: 50V AC/DC/CONTACT
- ENVIRONMENTAL:
TEMPERATURE RANGE: -25°C ~ 85°C
- PHYSICAL:
PITCH-MATING: 0.039" (1.00mm)
- WIRE:
WIRE SIZE: 26 AWG
MAX CURRENT: 0.1A per Wire
ISULATION MATERIAL: PTFE
- MATING:
JST Sales America Inc.
A04SR04SR30K152B



Project: PEE-PC1	Sub-system: NANORACK_EXP_CONTROLLER	
Design by: SANG HUYNH	Sheet title: I2C_SENSOR.SchDoc	Sheet 10 of 12
Checked by: BAO BUI Q.	Document No: 10	Size: A3
Approved by: VU PHAM	Revision: V1.0.0	Date:



Project: PEE-PC1	Sub-system: NANORACK_EXP_CONTROLLER	
Design by: SANG HUYNH	Sheet title: LED.SchDoc	Sheet 11 of 12
Checked by: BAO BUI Q.	Document No: 11	Size: A3
Approved by: VU PHAM	Revision: V1.0.0	Date:



Project: PEE-PC1	Sub-system: NANORACK_EXP_CONTROLLER	
Design by: SANG HUYNH	Sheet title: MCU.SchDoc	Sheet 12 of 12
Checked by: BAO BUI Q.	Document No: 12	Size: A3
Approved by: VU PHAM	Revision: V1.0.0	Date: