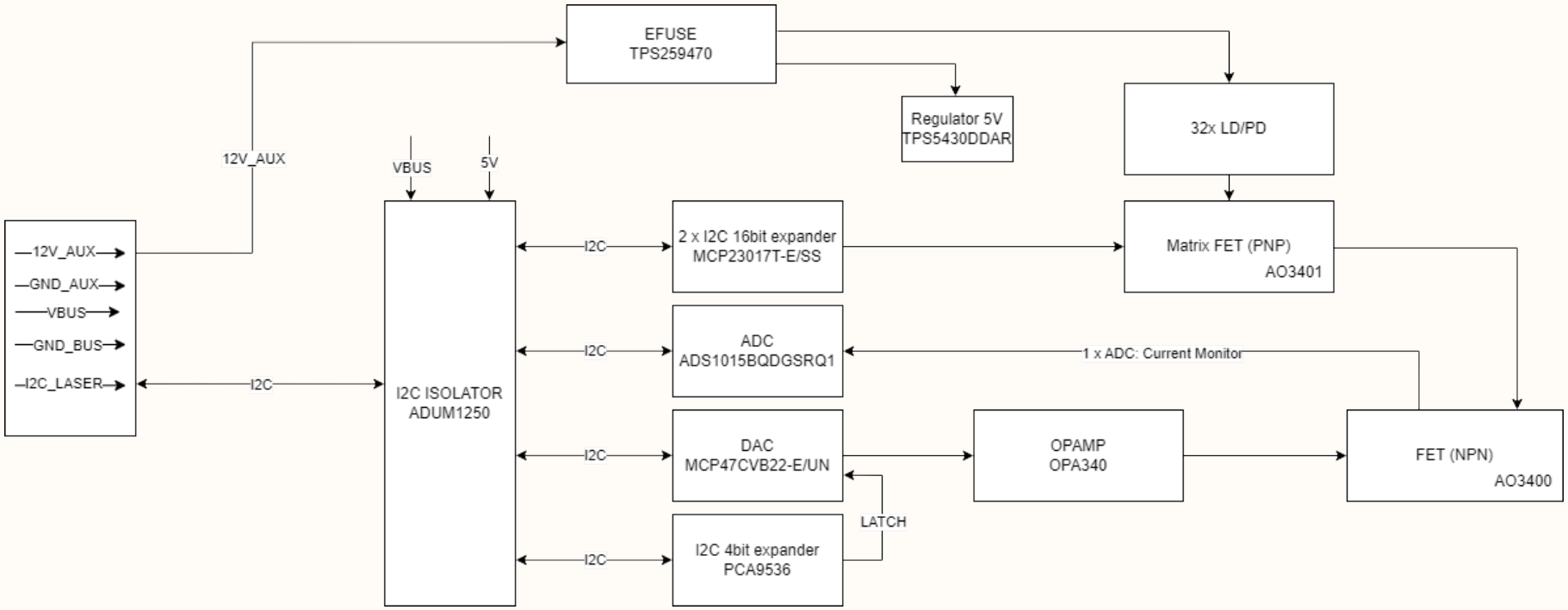
Table of Content

NANORACK LASER

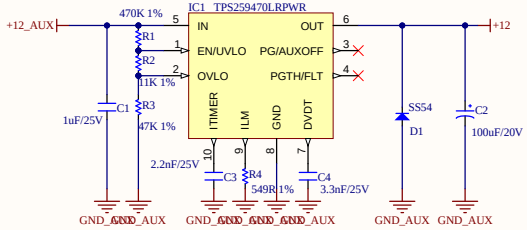
Schematic V1.0.0

SpaceTechTech

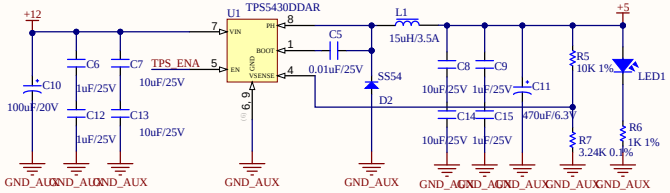
Project: BEE-PC1	Sub-system: NANORACK_LASER.PrjPcb	
Design by: Hung Nguyen D.	Sheet title: INDEX.SchDoc	Sheet 1 of 6
Checked by: Bao Bui Q.	Document No: 1	Size: A3
Approved by: SLT	Revision: V1.0.0	Date: 10/3/2024



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
Approved by: SLT	Revision: V1.0.0	Date: 10/3/2024



EFUSE



REGULATOR

$$SR\left(\frac{V}{ms}\right) = \frac{V_{IN}(V)}{t_R(ms)}$$

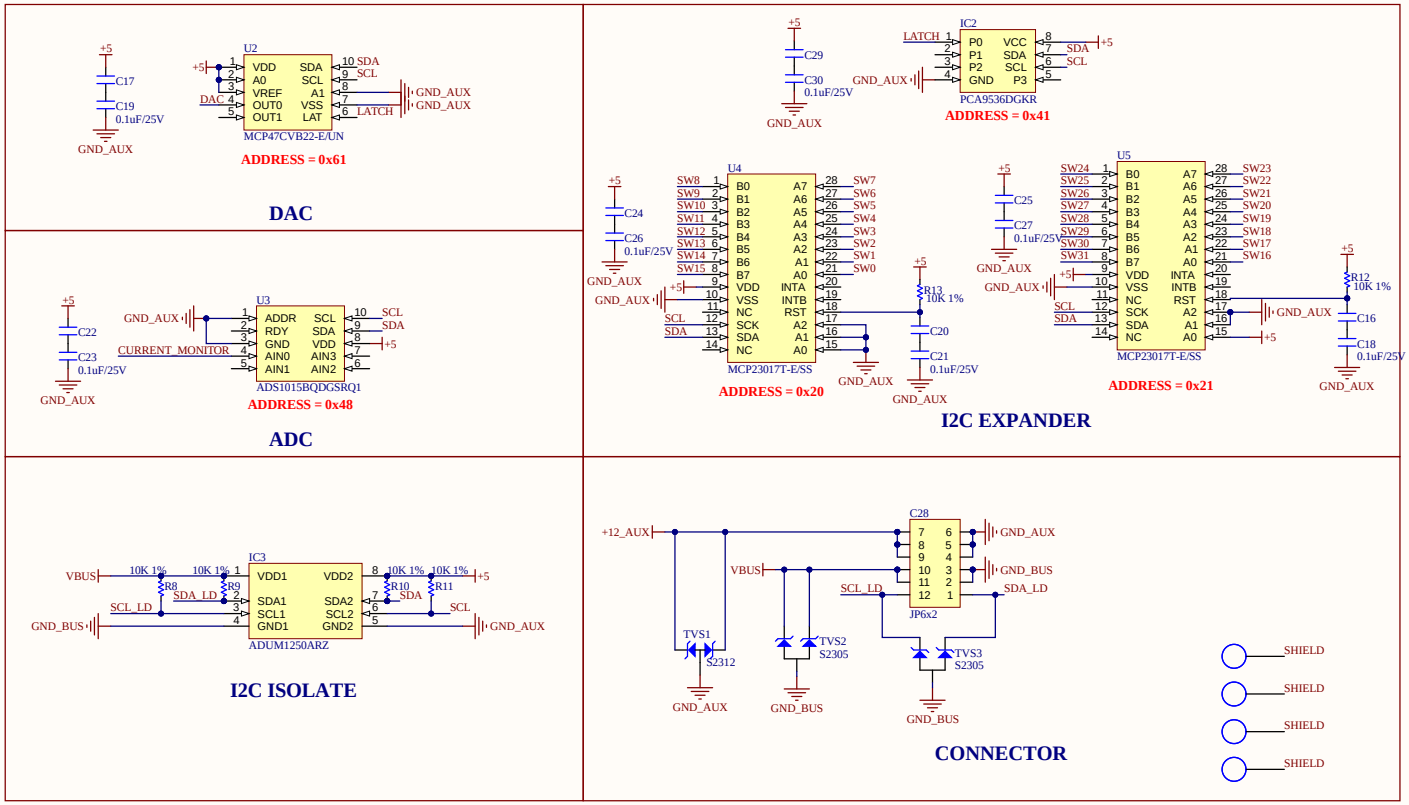
$$C_{dVdt}(pF) = \frac{2000}{SR\left(\frac{V}{ms}\right)}$$

$$I_{INRUSH}(mA) = SR(V/ms) \times C_{OUT}(uF)$$

$$R_{LIM}(\Omega) = \frac{3334}{I_{LIM}(A)}$$

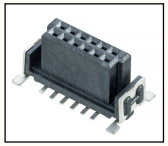
$$R_2 = \frac{R_1 \times 1{,}221}{V_{OUT} - 1{,}221}$$

Project: BEE-PC1	Sub-system: NANORACK_LASER.PrjPcb	
Design by: Hung Nguyen D.	Sheet title: EFUSE_AND_REGULATOR.SchDoc	Sheet 3 of 6
Checked by: Bao Bui Q.	Document No: 3	Size: A3
Approved by: SLT	Revision: V1.0.0	Date: 10/3/2024



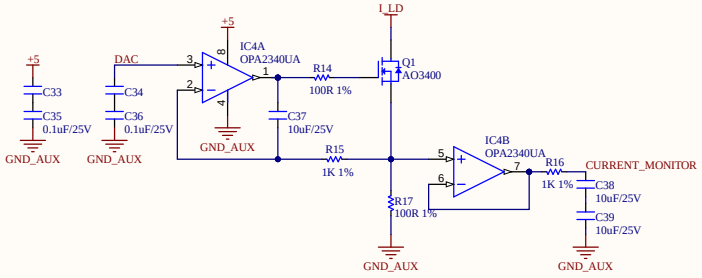
Harwin Inc. M55-6001242R

- ELECTRICAL:
  CURRENT RATING: 1.2A AC/DC/1
  VOLTAGE RATING: 100V AC/DC/1
  MAX CURRENT: 0.75A per CONTACT
- ENVIRONMENTAL:
  TEMPERATURE RANGE: -55°C TO +125°C
- PHYSICAL:
  PITCH-MATING: 0.050" (1.27mm)



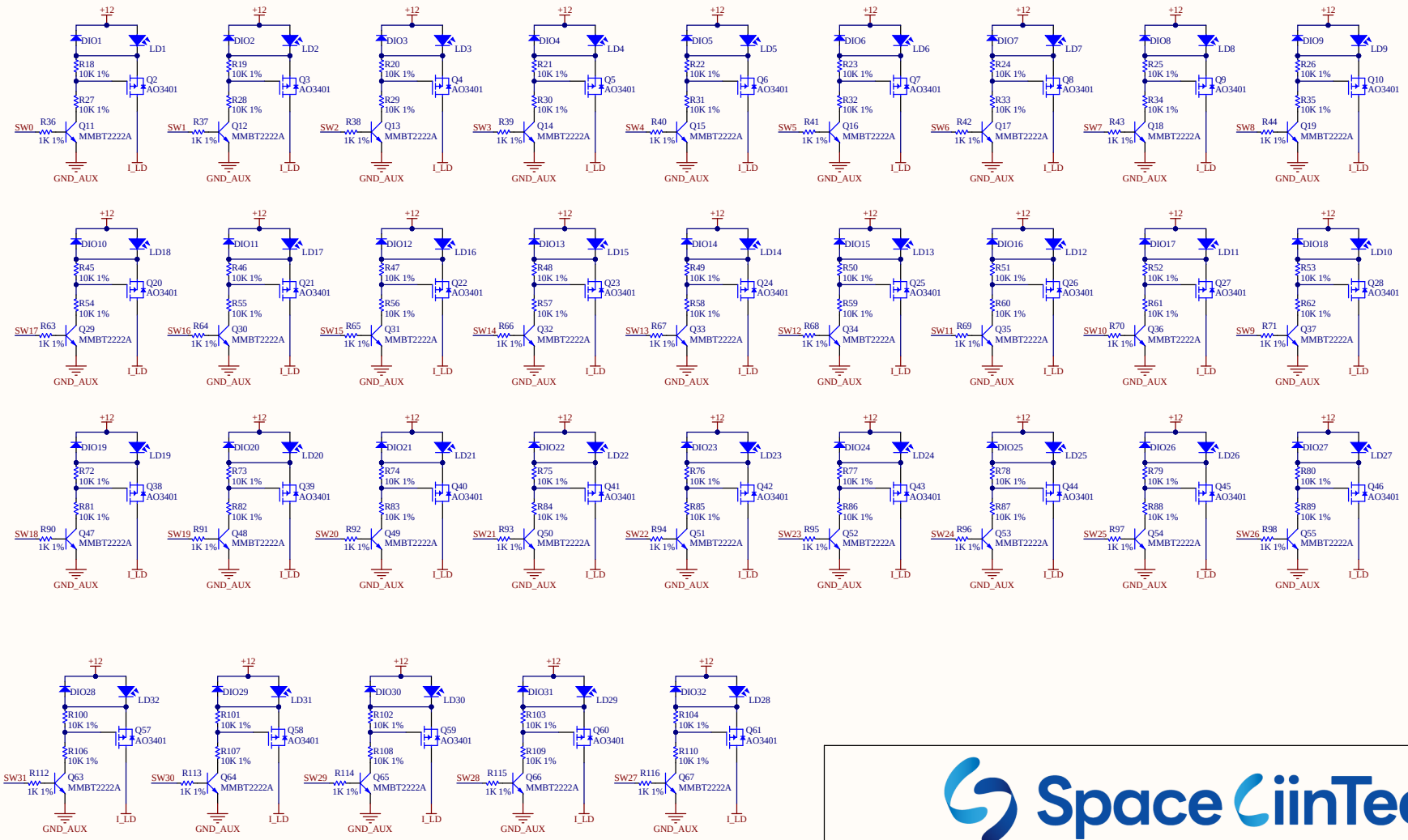
SpaceLinTech

Project: BEE-PC1	Sub-system: NANORACK_LASER.PrjPcb	
Design by: Hung Nguyen D.	Sheet title: COMMUNICATION.SchDoc	Sheet 4 of 6
Checked by: Bao Bui Q.	Document No: 4	Size: A3
Approved by: SLT	Revision: V1.0.0	Date: 10/3/2024



CURRENT SOURCE

Project: BEE-PC1	Sub-system: NANORACK_LASER.PrjPcb	
Design by: Hung Nguyen D.	Sheet title: CURRENT_SOURCE.SchDoc	Sheet 5 of 6
Checked by: Bao Bui Q.	Document No: 5	Size: A3
Approved by: SLT	Revision: V1.0.0	Date: 10/3/2024



Project: BEE-PC1	Sub-system: NANORACK_LASER.PrjPcb	
Design by: Hung Nguyen D.	Sheet title: SWITCHING.SchDoc	Sheet 6 of 6
Checked by: Bao Bui Q.	Document No: 6	Size: A3
Approved by: SLT	Revision: V1.0.0	Date: 10/3/2024