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NANORACK EXT LASER

Schematic V1.2.0
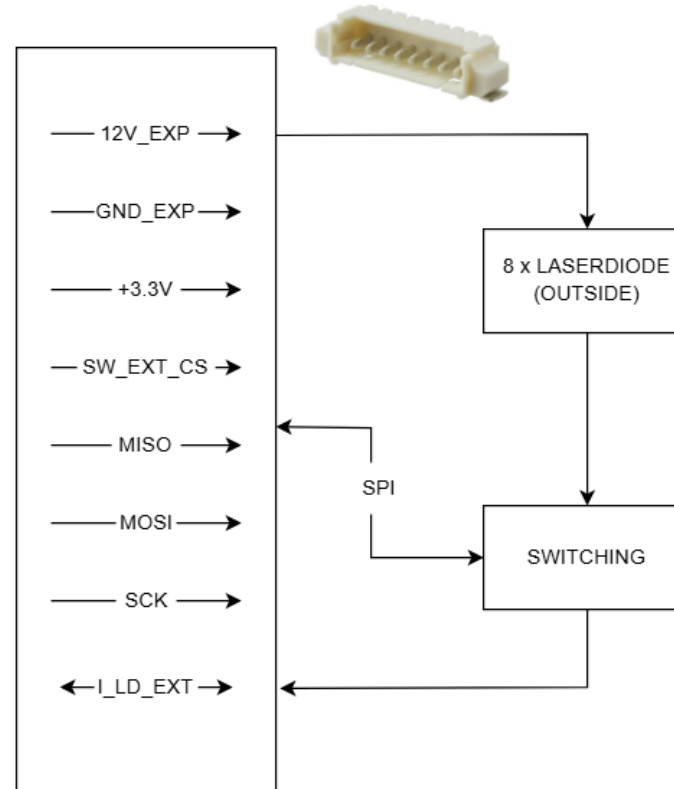
Space CiinTech

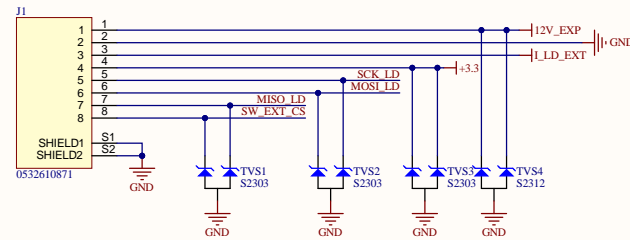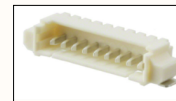|		
Project: *	Sub-system: NANORACK_LASER_EXT.PrjPcb	
Design by: SAMY VE	Sheet title: INDEX.SchDoc	Sheet 1 of 4
Checked by: BAO BUI Q.	Document No: 1	Size: A3
Approved by: VU PHAM	Revision: V1.2.0	Date:

8 x LASERDIODE BOARD (OUTSIDE)

0532610871 - Molex

- 12V_EXP →
- GND_EXP →
- +3.3V →
- SW_EXT_CS →
- MISO →
- MOSI →
- SCK →
- ← I_LD_EXT →

SPI

8 x LASERDIODE
(OUTSIDE)

SWITCHING

LASER EXT CONNECTOR

J1
0532610871

Pin	Signal
1	12V_EXP
2	
3	1_LD_EXT
4	
5	SCK_LD
6	MOSI_LD
7	MISO_LD
8	SW_EXT_CS

GND

SHIELD1 S1
SHIELD2 S2

+3.3

TVS1 S2303
TVS2 S2303
TVS3 S2303
TVS4 S2312

GND GND GND GND

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
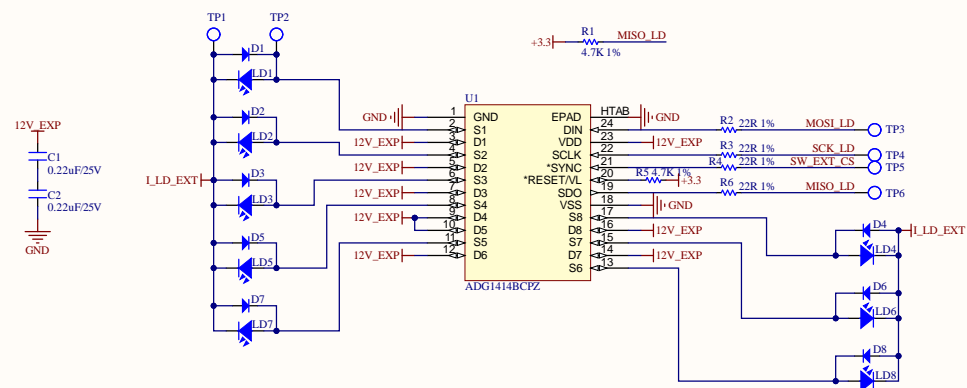 ISULATION MATERIAL: PTFE
- MATING:
  Molex - 0510210800

- MATING -

0510210800

Space CiinTech

TP1   TP2

R1 MISO_LD
+3.3   4.7K 1%

12V_EXP
C1
0.22uF/25V

C2
0.22uF/25V

GND

I_LD_EXT

D1
LD1
D2
LD2
D3
LD3
D5
LD5
D7
LD7

U1
1	GND	EPAD	HTAB	GND
2	DIN		24	
S1			23	12V_EXP
D1	VDD	22	R2 22R 1%	MOSI_LD	TP3
S2	SCLK	21	R3 22R 1%	SCK_LD	TP4
D2	*SYNC	20	R4 22R 1%	SW_EXT_CS	TP5
S3	*RESET/VL	19	R5 4.7K 1%	+3.3	
D3	SDO	18	R6 22R 1%	MISO_LD	TP6
S4	VSS	17	GND	
D4	S8	16	12V_EXP	
S5	D8	15		
D5	S7	14	12V_EXP	
S6	D7	13		
D6	S6			

ADG1414BCPZ

D4
LD4   I_LD_EXT

D6
LD6

D8
LD8

Project:	*	Sub-system:	NANORACK_LASER_EXT.PrjPcb		
Design by:	SAMY VE	Sheet title:	SWITCHING.SchDoc	Sheet	4 of 4
Checked by:	BAO BUI Q.	Document No:	4	Size:	A3
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