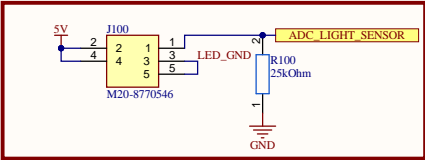
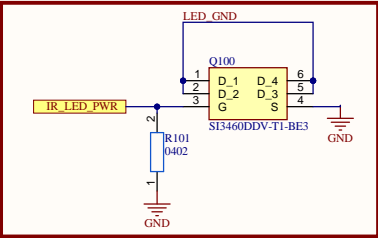


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Date:	11-10-2023	Sheet of
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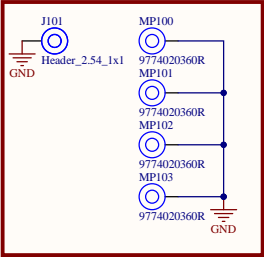
Light board connector



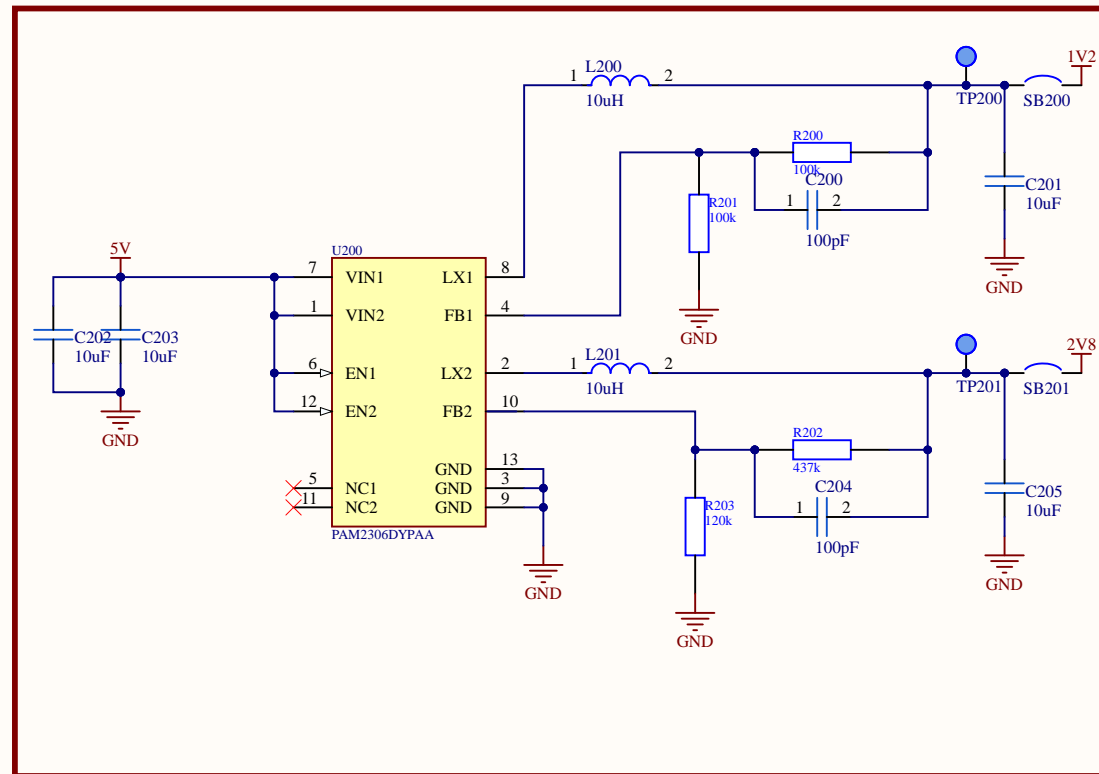
Light board power control



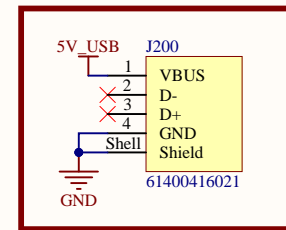
Board spacers



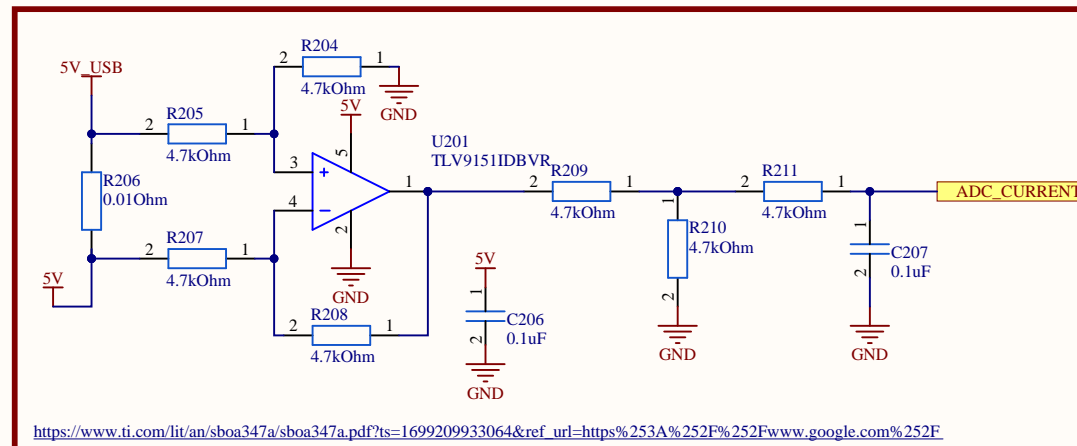
DC-DC converter



USB power connector

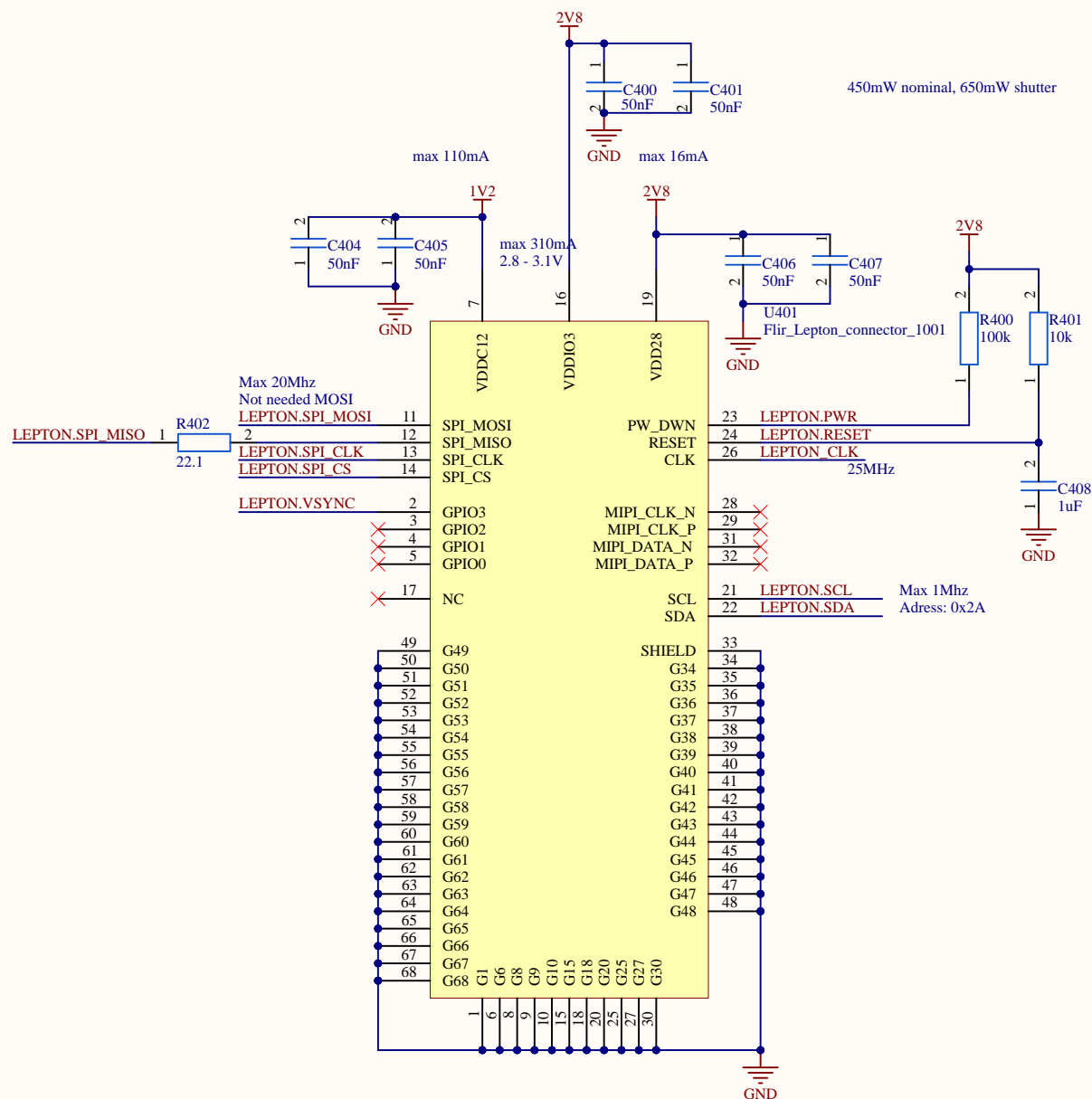


Current measuring

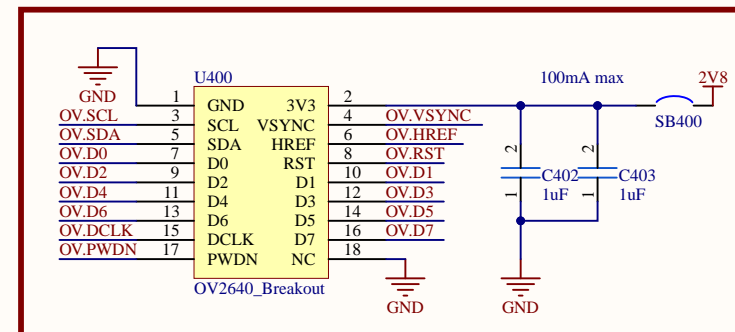


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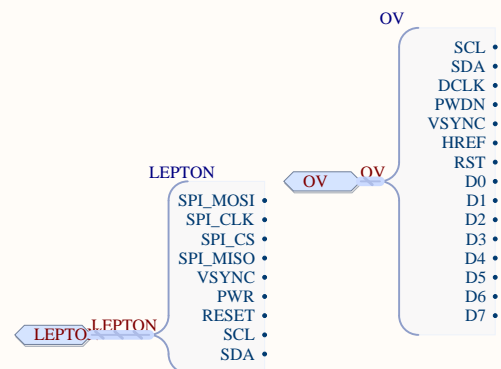
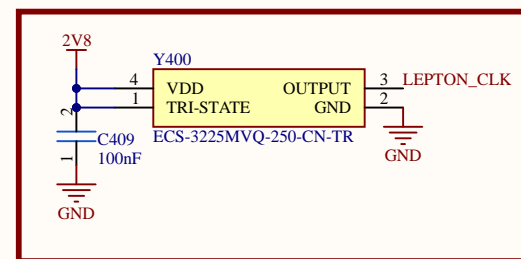
FLIR Lepton 3.5 infrared camera



OV2640 camera breakout

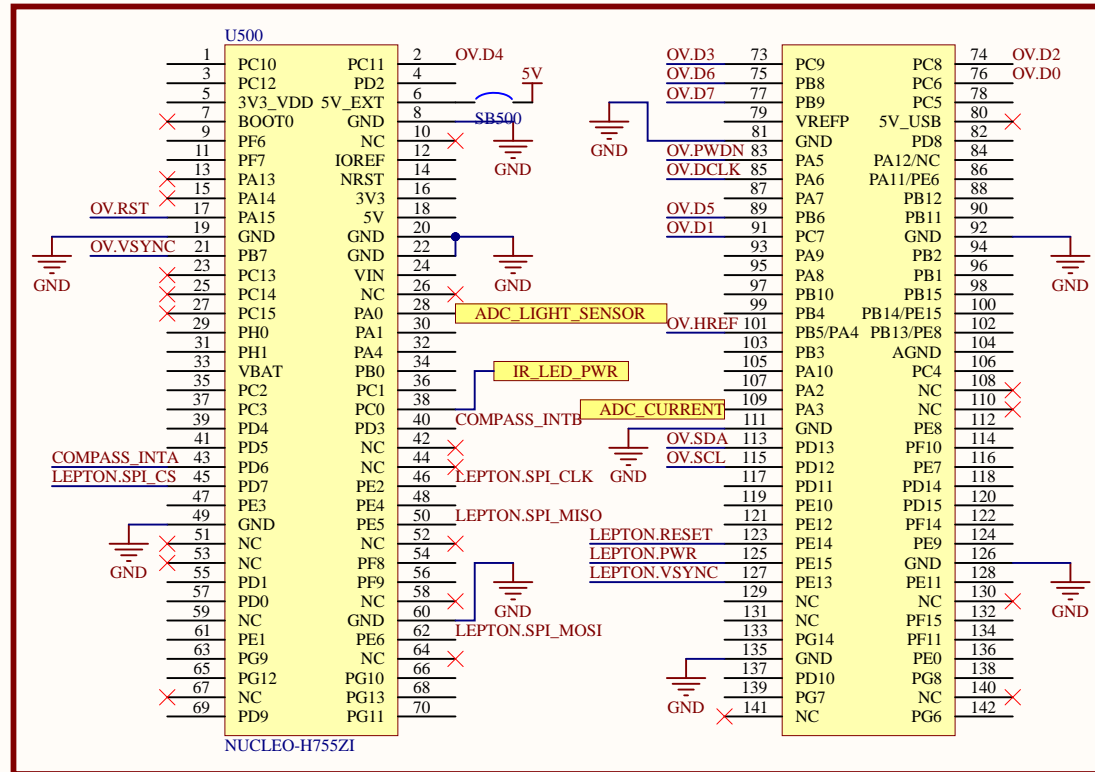


25MHz Lepton oscillator

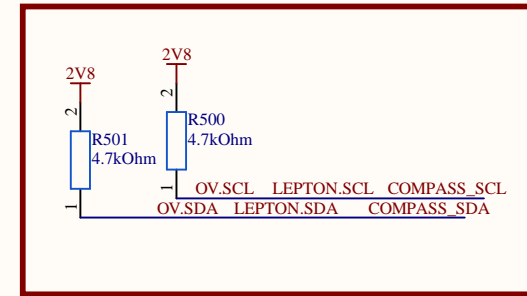


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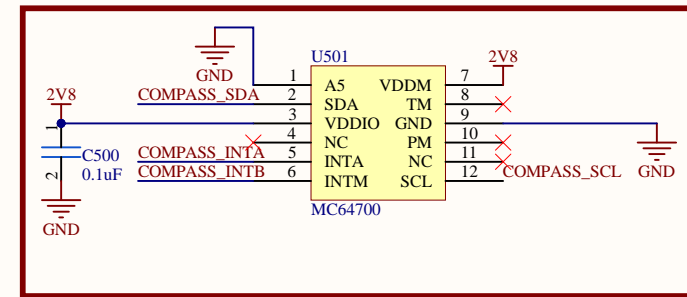
STM32H7 NUCLEO board



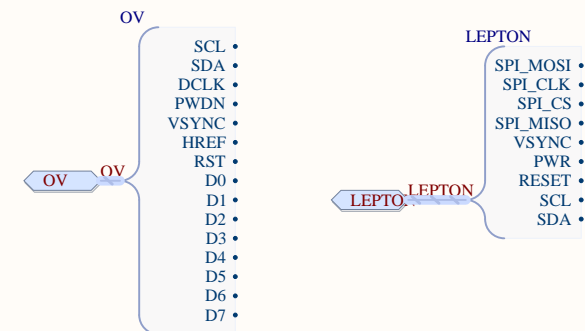
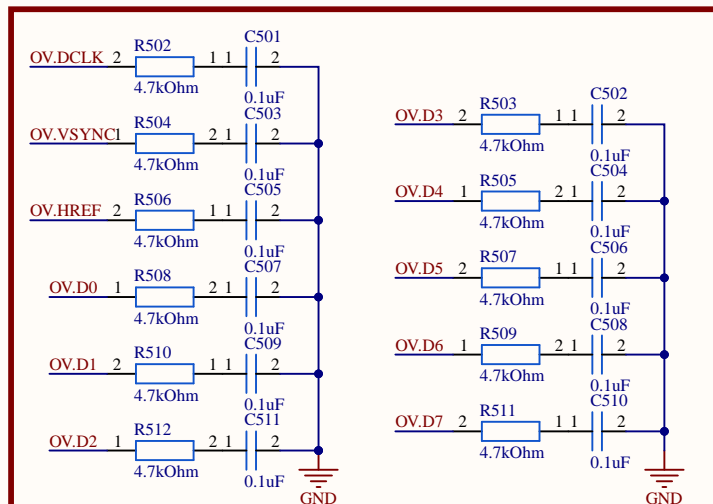
I2C pull-up



E-Compass



Impedance matching



Title		
Size	Number	Revision
A4		
Date:	11-10-2023	Sheet of
File:	C:\Users\...\Computation.SchDoc	Drawn By:

Line #	Name	Description	Designator	Quantity	Manufacturer 1	Manufacturer Part Number 1	Manufacturer Lifecycle 1	Supplier 1	Supplier Part Number 1	Supplier Unit Price 1	Supplier Subtotal 1
	100pF	0402 capacitor	C200, C204	2							
	10uF		C201, C202, C203, C205	4							
	0.1uF	0402 capacitor	C206, C207, C500, C501, C502, C503, C504, C505, C506, C507, C508, C509, C510, C511	14							
	50nF	0402 capacitor	C400, C401, C404, C405, C406, C407	6							
	1uF	0402 capacitor	C402, C403, C408	3							
	100nF	0402 capacitor	C409	1							
	ECS-3225MVQ-250-CN-TR	25MHz oscillator	Y400	1							
	M20-8770546	SMD 5 pin connector	J100	1							
	Header_2.54_1x1		J101	1							
	61400416021		J200	1							
	10uH	SMD Power Inductors 10uH ±20% 2.1A 72.8mΩ	L200, L201	2							
	9774020360R	SMT STEEL SPACER, M3, INTERNAL NO	MP100, MP101, MP102, MP103	4							
	S13460DDV-T1-BE3	MOSFET (N-Channel)	Q100	1							
	25kOhm	0402 resistor	R100	1							
	0402	0402 resistor	R101	1							
	100k		R200	1							
	100k	https://www.mouser.it/ProductDetail/Panasonic/ERA6VEB1003V7qs+r17ufl1zohRHGRIRVKR%2FA%3D%3D	R201	1							
	437k	RN73H2ATTD4373B25	R202	1							
	120k	ERA-6AEB124V	R203	1							
	4.7kOhm	0402 resistor	R204, R205, R207, R208, R209, R210, R211, R500, R501, R502, R503, R504, R505, R506, R507, R508, R509, R510, R511, R512	20							
	0.010Ohm		R206	1							
	100k	0402 resistor	R400	1							
	10k	0402 resistor	R401	1							
	22.1	0402 resistor	R402	1							
	Solder_bridge		SB200, SB201, SB400, SB500	4							
	Test_point		TP200, TP201	2							
	PAM2306DY PAA	https://eu.mouser.com/ProductDetail/Diodes-Incorporated/PAM2306DYPAAGqs-%252BSIWJ1dfkUj9LGsPO0SAw%3D%3D&_gl=1*1y46ajh*_ga*NS4xNjK0MxU1NzEw*_ga_15W45TQT4T*MTY5ODI1ODI3MC4xNS4xNjE2OTgyNTgyNzAuNjAuMC4w	U200	1							
	TLV9151IDBVR	OPAMP	U201	1							
	OV2640_Breakout	https://www.uctronics.com/download/cam_module/OV2640DS.pdf	U400	1							
	F1ir_Lepton_connector_1001		U401	1							
	NUCLEO-H755ZI	https://www.st.com/en/evaluation-tools/nucleo-h755zi-q.html#documentation	U500	1							
	MC64700	6 axis accelerometer + magnetometer	U501	1							