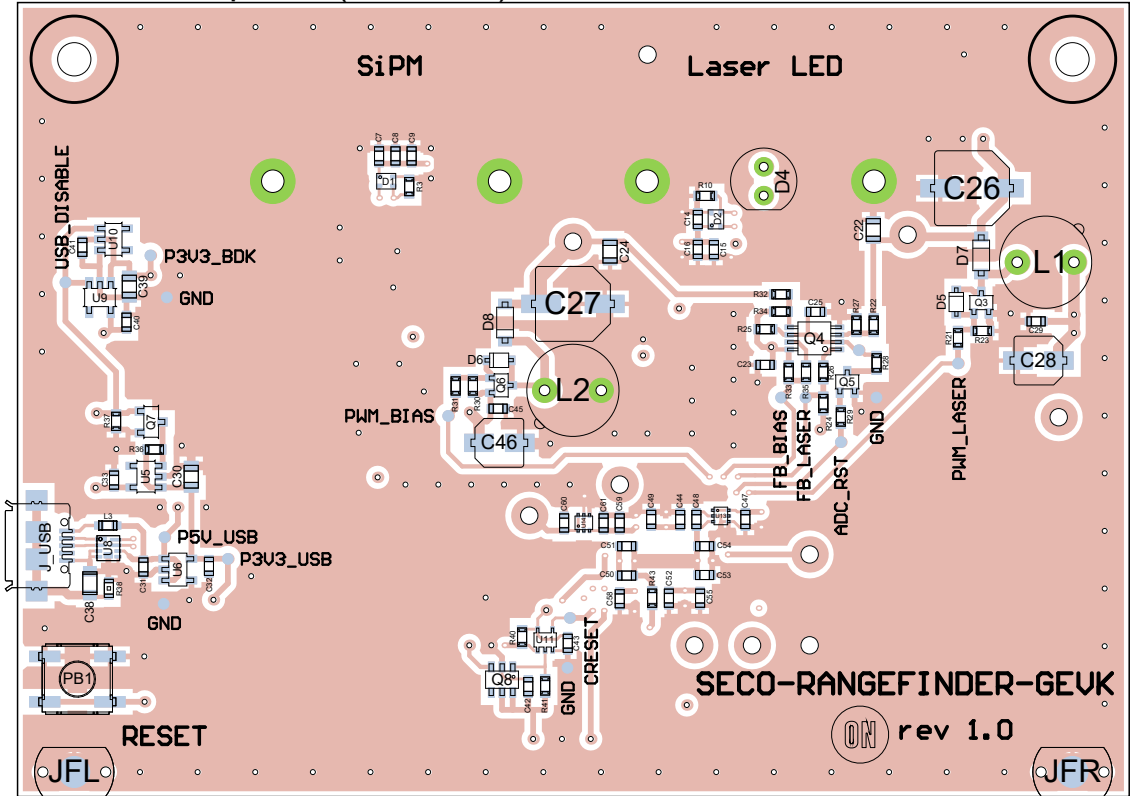


## Bill Of Materials - Top side components

Designator	Comment	Quantity
C51, C54	10 nF	2
C25	1 nF	1
C7, C8, C9, C14, C15, C16	10 nF	6
C41, C42	100 nF	2
C22	100 nF	1
C23, C29, C43, C44, C45, C49, C50, C52, C53, C55, C58, C59	100 nF	12
C24	100 nF	1
C26	47 µF	1
C27	47 µF	1
C28, C46	10 µF	2
C30, C39	4µ7	2
C31, C32, C33, C40, C47, C48, C60, C61	1 µF	8
C38	4n7	1
D1, D2	MICROB-10010-MLP	2
D4	SPL_PL90_3	1
D5, D6	BAS16H	2
D7	BAT54	1
D8	MMSD701	1
J USB	629 105 136 821	1
JFL, JFR	746 631 3 R	2
L1, L2	1 mH	2
L3	30 Ohm @ 100 MHz	1
PB1	430 773 034 825	1
Q3, Q5	BC817-40W	2
Q4	LM2903DMR2G	1
Q6	BC856BW	1
Q7	BSS138L	1
Q8	NCP308SN330	1
R43	100R	1
R3, R10	49R9	2
R26, R35	27R	2
R24, R33, R40, R41	10k	4
R21	1k2	1
R22, R23, R30, R37	100k	4
R25	27k	1
R27	8k2	1
R28	33R	1
R29, R34	22k	2
R31	820R	1
R32	348k	1
R36	33k	1
R38	1M	1
U5, U9	FPP2110	2
U6	NCP161ASN330T1G	1
U8	EMI2121MTTAG	1
U10	NCP300LSN27	1
U11	MC74VHC1GT08DFT1G	1
U13	NCP170BXV120T2G	1
U14	NCP170BXV250T2G	1

## View from Top side (Scale 3:2) 1/2



- ① Only soldered components shown, mechanical components not included
- ② Only components present in this assembly variant are listed in BoM table on the left
- ③ Components not present in this assembly variant are crossed out by red line

## SECO-RANGEFINDER-GEVK

Revision:  
1.0

State:  
released

Variant name: standard\_board

Engineer: Stefan Kostrec

Date: 01.Jun 2020 20:15

Assembly  
document

Sheet  
1 / 6

PCB File: Lidar\_board.PcbDoc

Repository revision: 1968

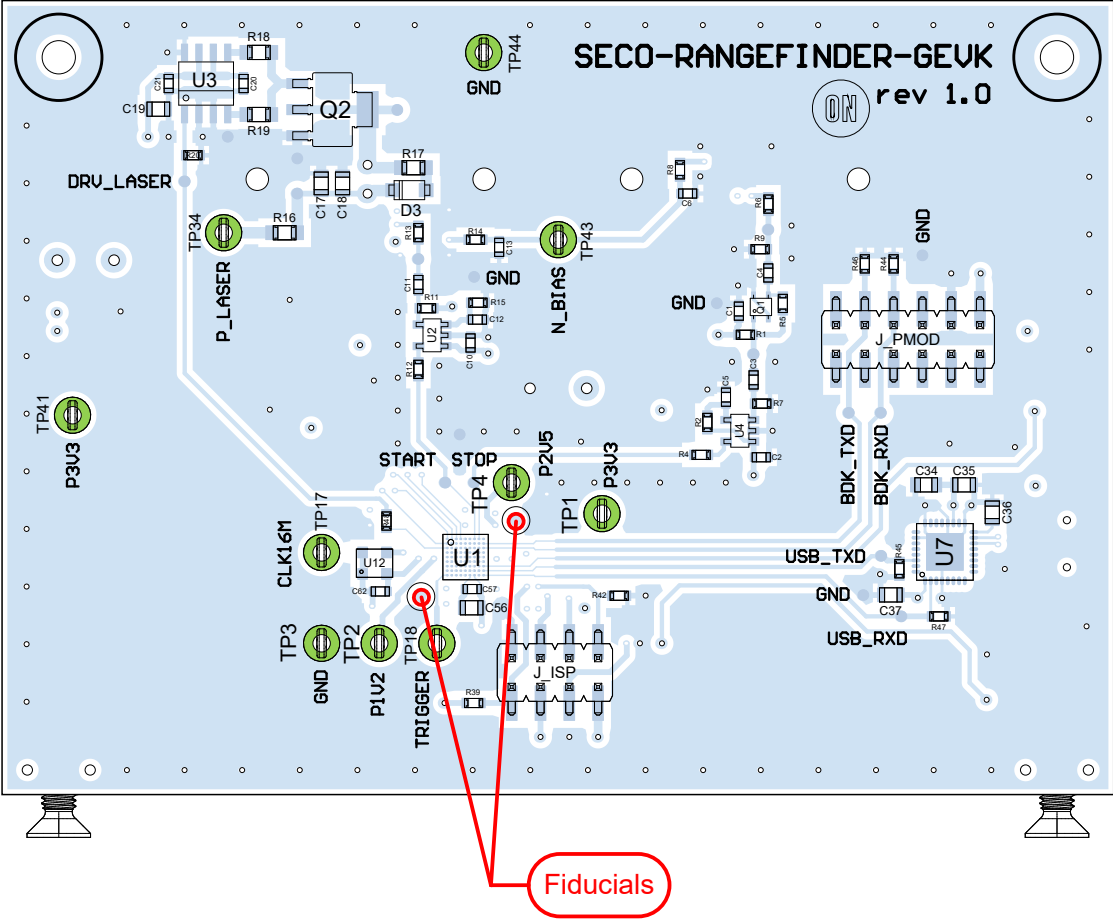
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# Bill Of Materials - Bottom side components

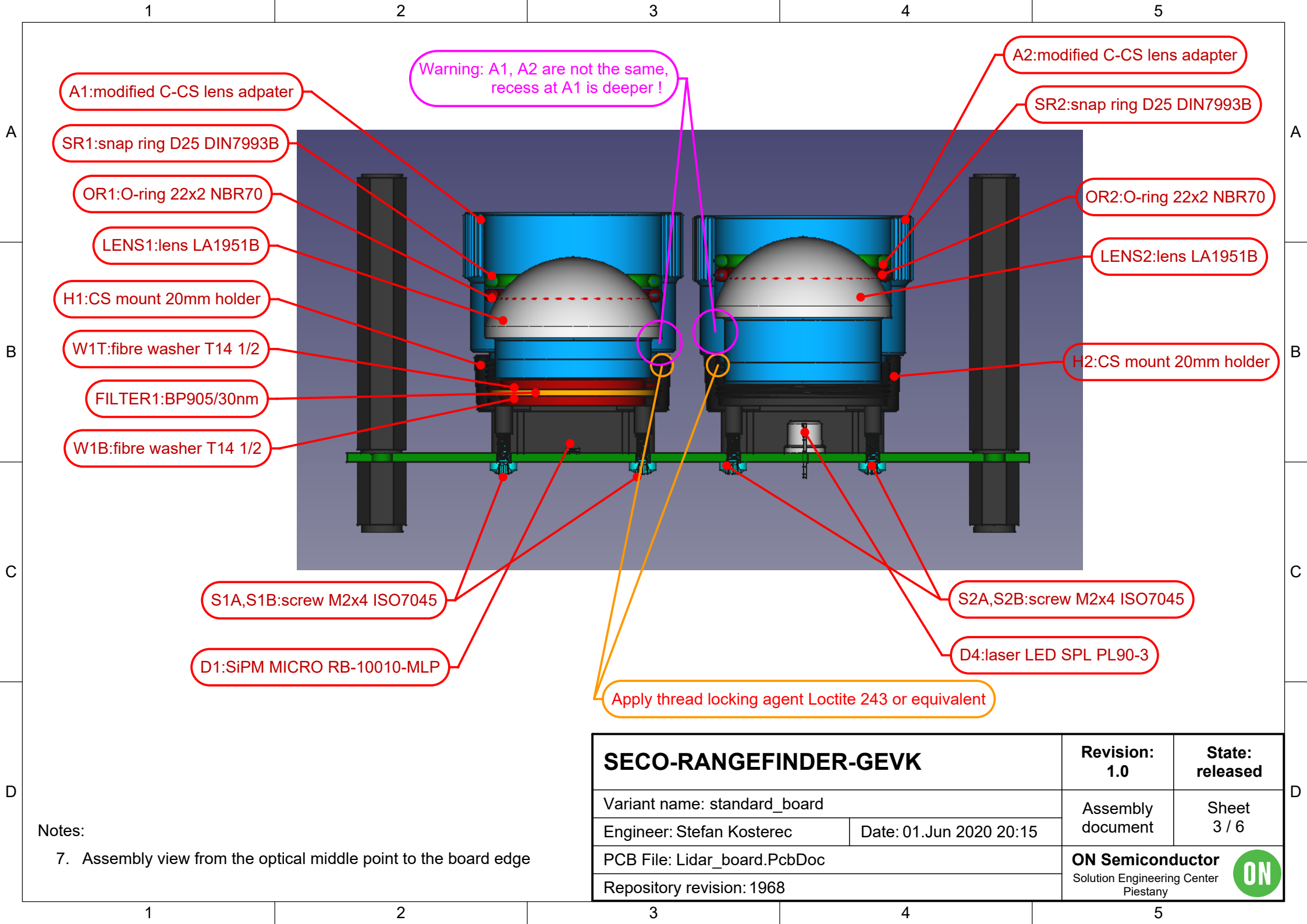
Designator	Comment	Quantity
C1, C2, C5, C10, C12	10 nF	5
C3	1 nF	1
C4, C11	1 nF	2
C6, C13	10 nF	2
C17, C18	390 nF	2
C19	4µ7	1
C20, C21	100 nF	2
C57, C62	100 nF	2
C34	4µ7	1
C35, C36, C37	100 nF	3
C56	10 µF	1
D3	MBR120LSF	1
J_ISP	611 008 211 21	1
J_PMOD	610 012 211 21	1
Q1	NSVF4015SG4	1
Q2	FQT13N06L	1
R1, R9	100R	2
R2	825R	1
R4, R12, R48	27R	3
R5	6k81	1
R6	21R5	1
R7, R15	1k47	2
R8	51R	1
R11	1k62	1
R13	47R	1
R14	5k62	1
R16	100R	1
R17, R18, R19	1R	3
R20, R39	10k	2
R44, R45, R46, R47	33k	4
R42	4k7	1
TP1, TP41	RED	2
TP2	ORANGE	1
TP3, TP44	BLACK	2
TP4	YELLOW	1
TP17, TP43	BLUE	2
TP18	WHITE	1
TP34	PURPLE	1
U1	ICE40LP8K-CM81	1
U2, U4	NBA3N012C	2
U3	NCP81074A	1
U7	FT232RQ	1
U12	16 MHz 25 ppm	1

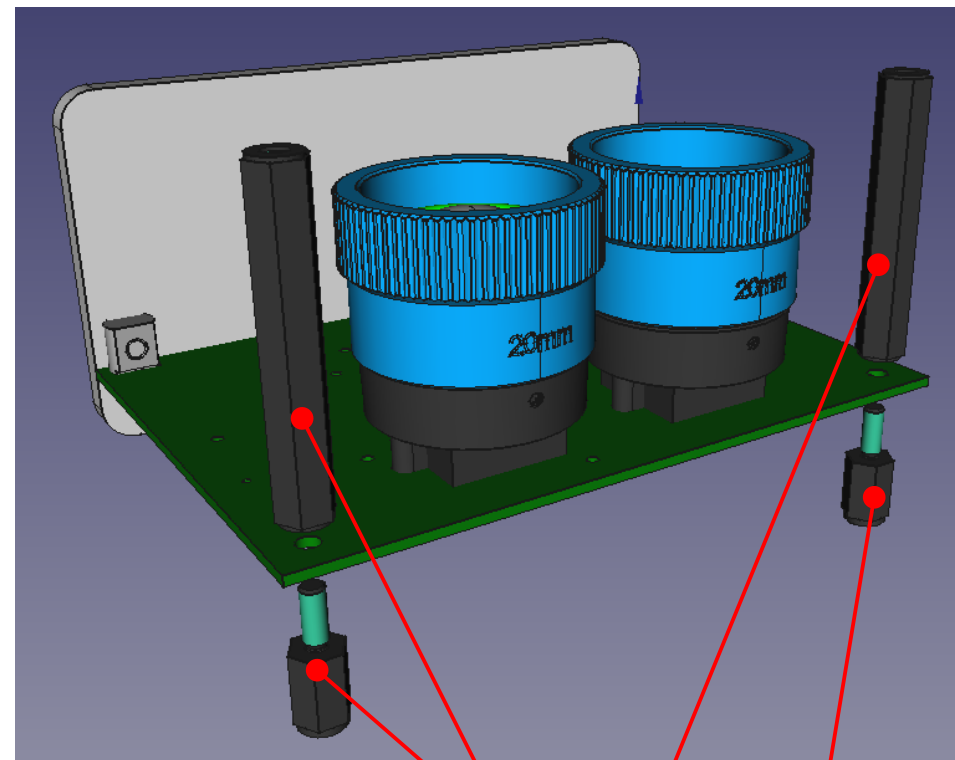
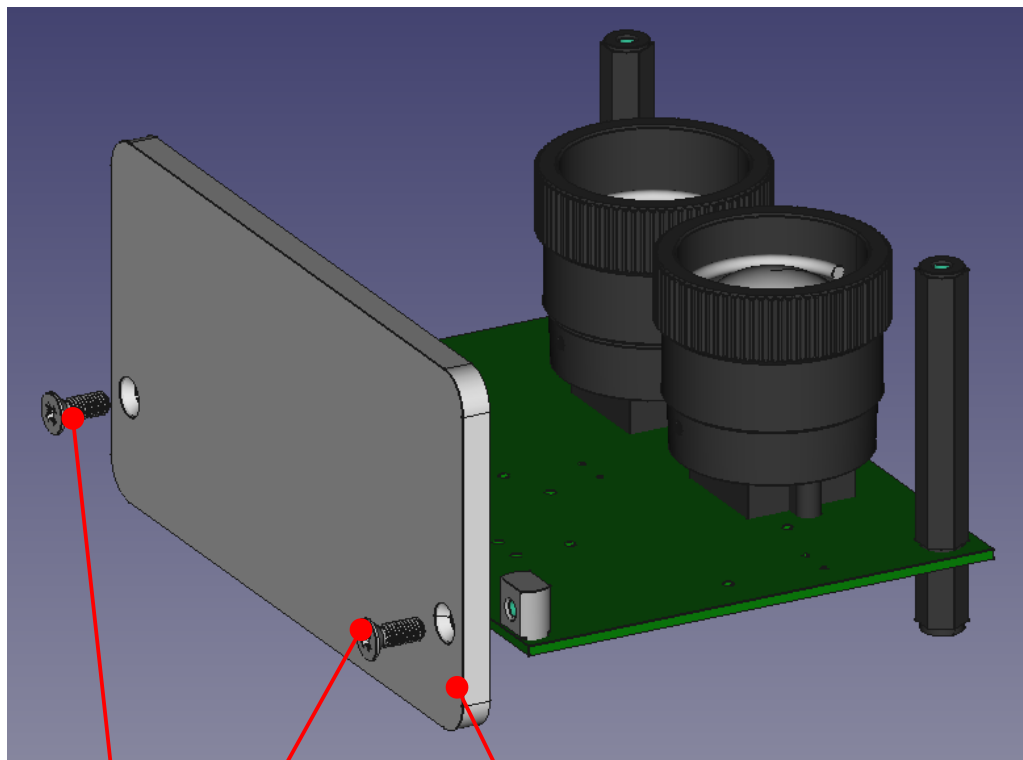
# View from Bottom side (Scale 3:2)



- △ Only soldered components shown, mechanical components not included
- ⑤ Only components present in this assembly variant are listed in BoM table on the left
- ⑥ Components not present in this assembly variant are crossed out by red line

<b>SECO-RANGEFINDER-GEVK</b>		<b>Revision:</b> <b>1.0</b>	<b>State:</b> <b>released</b>
Variant name: standard_board		Assembly document	Sheet 2 / 6
Engineer: Stefan Kostrec	Date: 01.Jun 2020 20:15		
PCB File: Lidar_board.PcbDoc		<b>ON Semiconductor</b> Solution Engineering Center Piestany	
Repository revision: 1968			





Custom white PETG plate

SL,SB: screw M3x8 ISO7046

SPLA,SPRA: Plastic spacer M3 10/40 HEX6, 970 400 365

SPLB,SPRB: plastic spacer M3x10 HEX 6, 971 100 365

## SECO-RANGEFINDER-GEVK

Revision:  
1.0

State:  
released

Variant name: standard\_board

Assembly  
document

Sheet  
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PCB File: Lidar\_board.PcbDoc

Repository revision: 1968

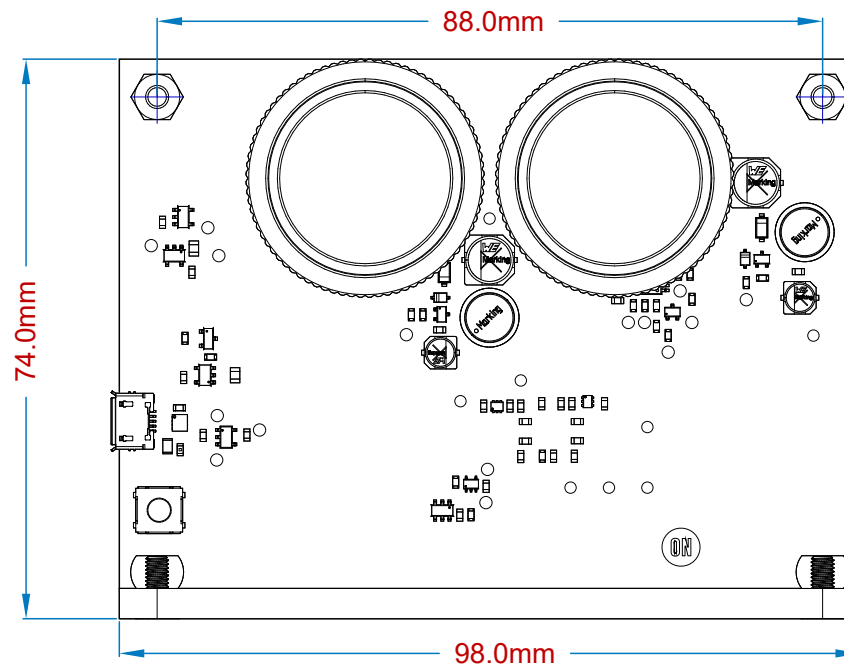
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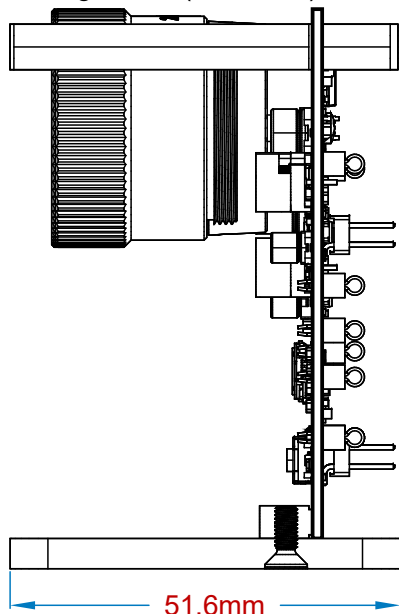
View from Front side (Scale 1:1)



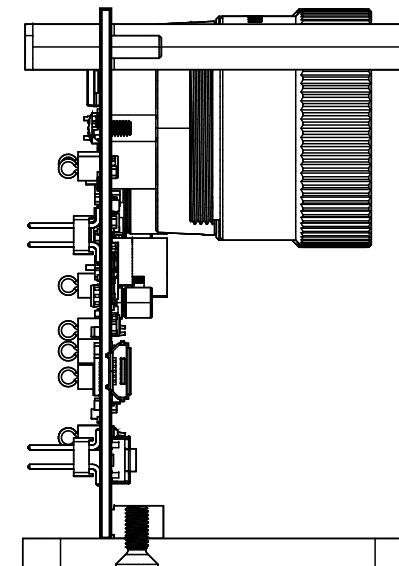
View from Top side (Scale 1:1)



View from Right side (Scale 1:1)



View from Left side (Scale 1:1)



## SECO-RANGEFINDER-GEVK

Revision:  
1.0

State:  
released

Variant name: standard\_board

Assembly  
document

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Engineer: Stefan Kosterec

Date: 01.Jun 2020 20:15

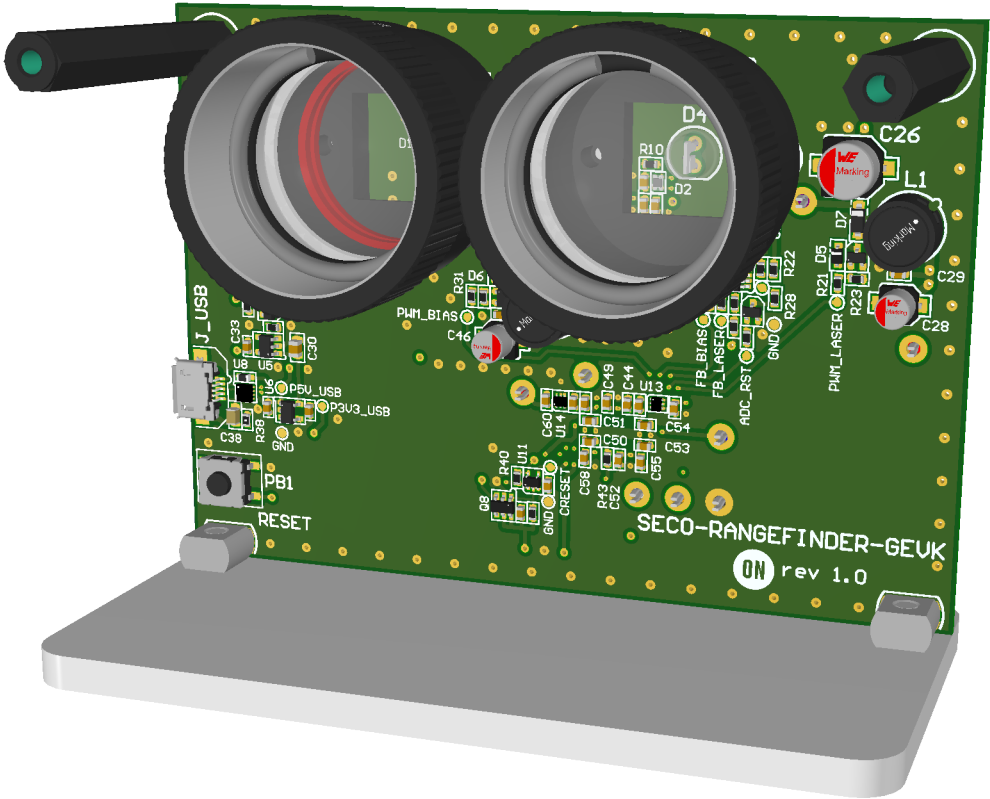
PCB File: Lidar\_board.PcbDoc

Repository revision: 1968

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Realistic View



<b>SECO-RANGEFINDER-GEVK</b>		<b>Revision:</b> <b>1.0</b>	<b>State:</b> <b>released</b>
Variant name: standard_board		Assembly document	Sheet 6 / 6
Engineer: Stefan Kostrec	Date: 01.Jun 2020 20:15		
PCB File: Lidar_board.PcbDoc		<b>ON Semiconductor</b> Solution Engineering Center Piestany	
Repository revision: 1968			

