



Title		
Size	Number	Revision
A3		
Date:	24.03.2020	Sheet of
File:	D:\GITHUB\Sheet1.SchDoc	Drawn By:

Designator	Comment	Description	Footprint	Quantity
C1, C6, C7, C14, C19	1uF	Chip capacitor	CAPC2012X135N	5
C2, C9, C16, C18, C20	10uF	Chip capacitor	CAPC1608X90N	5
C3, C4, C15, C23, C24, C26, C27, C29, C30, C31, C32	100nF	Chip capacitor	CAPC1608X90N	11
C5	1uF	Chip capacitor	CAPC1608X90N	1
C8	100p	Chip capacitor	CAPC1608X90N	1
C10, C11	10nF	Chip capacitor	CAPC2012X135N	2
C12, C13	10nF	Chip capacitor	CAPC1608X90N	2
C17	20nF	Chip capacitor	CAPC1608X90N	1
C21, C22, C25, C28	10pF	Chip capacitor	CAPC1608X90N	4
D1	AD500-8	APD photodiode	AD500-8	1
D2, VD2	BAS5202	Schottky Diode	SOD523F	2
D3	TDC-GP21	TDC	QFN32 5x5mm	1
D4	Laser	TO-18 Laser	SPL_PL90	1
D5	STM32F303CBT6	Microcontroller	LQFP-48_N	1
DA1	MIC2288YD5-TR	Step Up	SOT23-5	1
DA2	LD1117S33TR	LOW DROP FIXED AND ADJUSTABLE POSITIVE VOLTAGE REGULATORS	SOT223	1
DA3	MAX3658	Transimpedance Amp	TDFN-8_0.65	1
DA4, DA5	ADCM600	Fast comparator	SOT23-5	2
J1, J2	U.FL		TE C-1909763	2
L1, L2, L4, L6, L7, L8, L9, L10	BEAD	Ferrit Bead	INDC1608N	8
L3	Inductor	Inductor	V0805HD	1
L5	Inductor	Inductor	INDC3216	1
LED1	LED	LED_0603	LED_0603	1
LH1	CS Lens Holder	M12 Lens Holder	Lens Holder CS	1
LH2	Lens Holder	M12 Lens Holder	LENS_HOLDER_20MM_ADJ	1
P1, P2	Power pad	Pad for wire	Ext_power_pad	2
P4, P5, P6, P7, P8, P9, P10, P11	Pad	Pad for wire	Ext_pad_2	8
Q1	BSS131	N-Channel SiPMOS Small-Signal-Transistor, 240 V VDS, 0.11 A ID, -55 to 150 degC, PG-SOT23, Reel, Green	INF-PG-SOT23_N	1
Q2	BSZ165N04NS G	N-Channel OptiMOS 3 Power-Transistor, 40 V VDS, 31 A ID, -55 to 150 degC, PG-TSDSON-8-1, Reel, Green	INF-PG-TSDSON-8-1_A_V	1
R1, R15, R16, R17, R26, R33	1K	Chip resistor	RESC1608X55N	6
R2, R7	47	Chip resistor	RESC1608X55N	2
R3, R5	47K	Chip resistor	RESC1608X55N	2
R4, R25, R28	10K	Chip resistor	RESC1608X55N	3
R6, R10, R13, R23, R31	4.7K	Chip resistor	RESC1608X55N	5
R8	2M	Chip resistor	RESC2012X70N	1
R9	20K	Chip resistor	RESC1608X55N	1
R11, R18	270	Chip resistor	RESC1608X55N	2
R12	82	Chip resistor	RESC1608X55N	1
R14	20K	Chip resistor	RESC2012X70N	1
R19	0.1	Chip resistor	RESC2012X70N	1
R20, R27, R30, R32	0	Chip resistor	RESC1608X55N	4
R21	22	Chip resistor	RESC1608X55N	1
R22	100K	Chip resistor	RESC1608X55N	1
R24	10M	Chip resistor	RESC1608X55N	1
R29	10K NTC	Chip resistor	RESC1608X55N	1
U1	UCC27511DBVR	Single-Channel High-Speed Low-Side Gate Driver (with 4-A Peak Source and 8-A Peak Sink), DBV0006A	SOT23-6_M	1
VD1	BAS521		SOD523F	1
X1	32.768KHz	Quartz	QUARTZ_32K	1
X2	Quartz	Quartz_SX-6 (SMD06035	SX-6 QUARTZ	1