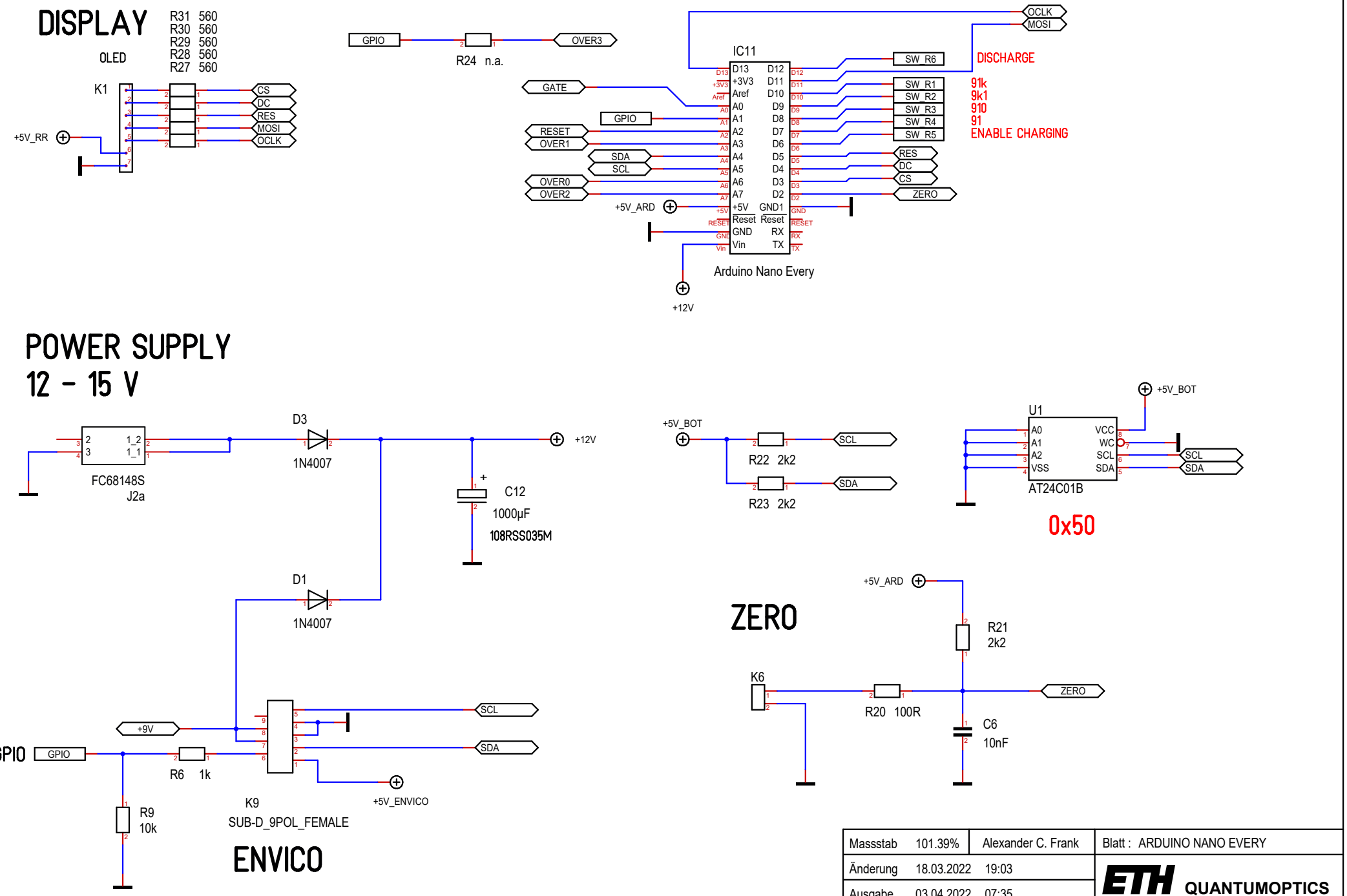
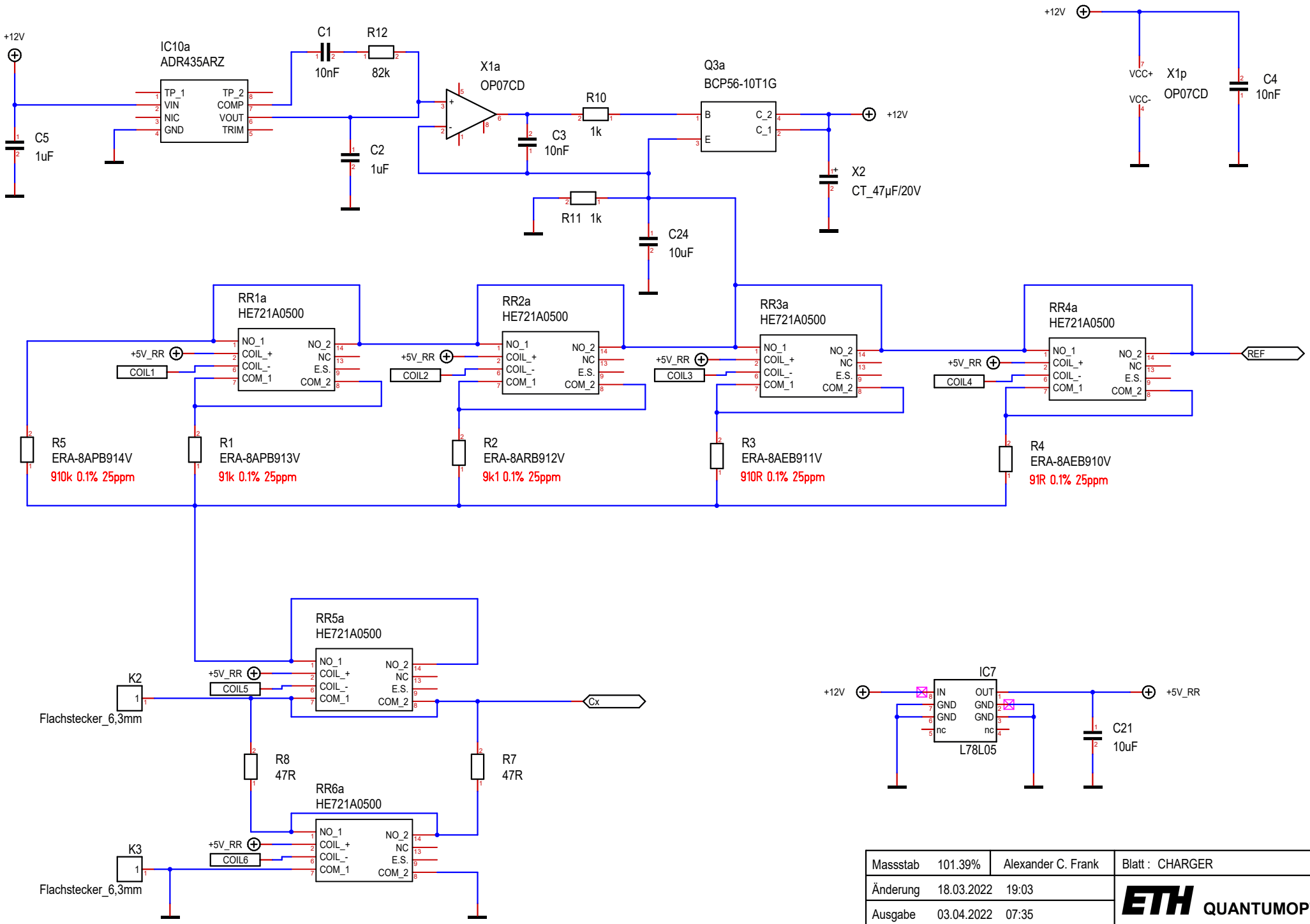
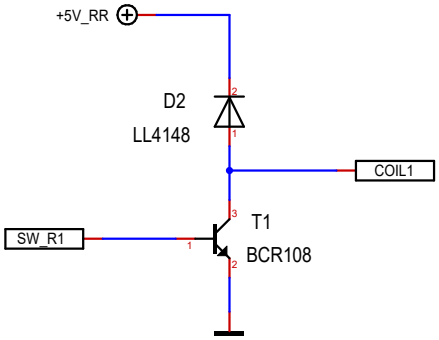
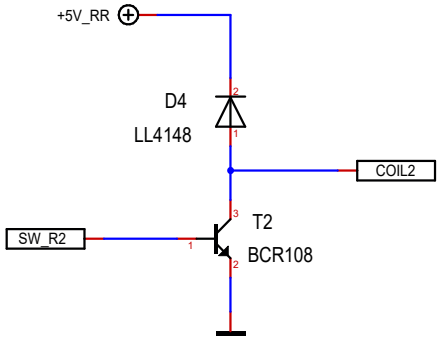
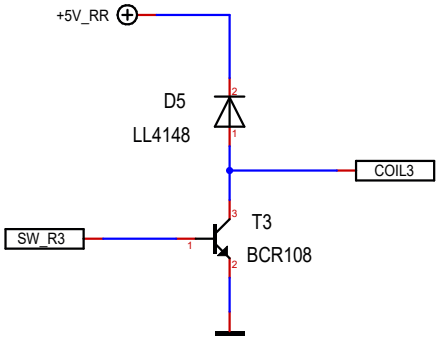
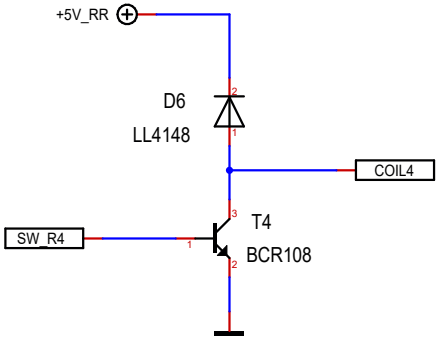

DISPLAY
R31 560
R30 560
R29 560
R28 560
R27 560
OLED
K1
CS
DC
RES
MOSI
OCLK
+5V_RR
GPIO
R24 n.a.
OVER3
IC11
SW_R6
DISCHARGE
SW_R1
SW_R2
SW_R3
SW_R4
SW_R5
91k
9k1
910
91
ENABLE CHARGING
GATE
GPIO
RESET
OVER1
SDA
SCL
OVER0
OVER2
+5V_ARD
RES
DC
CS
ZERO
Arduino Nano Every
+12V
POWER SUPPLY
12 - 15 V
FC68148S
J2a
D3
1N4007
+12V
C12
1000µF
108RSS035M
D1
1N4007
+9V
GPIO
R6 1k
R9
10k
K9
SUB-D_9POL_FEMALE
+5V_ENVICO
SCL
SDA
ENVICO
+5V_BOT
R22 2k2
R23 2k2
U1
AT24C01B
0x50
ZERO
+5V_ARD
R21
2k2
K6
R20 100R
C6
10nF
Massstab 101.39%
Alexander C. Frank
Blatt : ARDUINO NANO EVERY
Änderung 18.03.2022 19:03
Ausgabe 03.04.2022 07:35
Datei Ipamod_2022-V2.T3001
ETH QUANTUMOPTICS

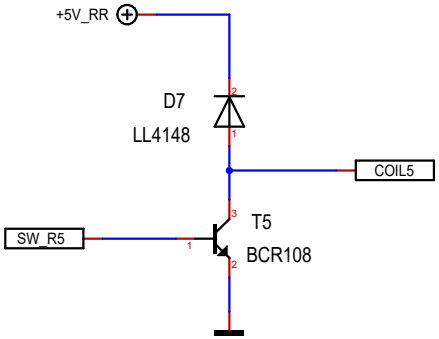

+12V
IC10a
ADR435ARZ
TP_1
VIN
NIC
GND
TP_2
COMP
VOUT
TRIM
C1
10nF
R12
82k
C5
1uF
C2
1uF
X1a
OP07CD
C3
10nF
R10
1k
Q3a
BCP56-10T1G
B
E
C_2
C_1
+12V
X2
CT_47µF/20V
R11 1k
C24
10uF
+12V
VCC+
VCC-
X1p
OP07CD
C4
10nF
RR1a
HE721A0500
RR2a
HE721A0500
RR3a
HE721A0500
RR4a
HE721A0500
NO_1
COIL_+
COIL_-
COM_1
NO_2
NC
E.S.
COM_2
+5V_RR
COIL1
COIL2
COIL3
COIL4
REF
R5
ERA-8APB914V
910k 0.1% 25ppm
R1
ERA-8APB913V
91k 0.1% 25ppm
R2
ERA-8ARB912V
9k1 0.1% 25ppm
R3
ERA-8AEB911V
910R 0.1% 25ppm
R4
ERA-8AEB910V
91R 0.1% 25ppm
RR5a
HE721A0500
RR6a
HE721A0500
K2
Flachstecker_6,3mm
K3
Flachstecker_6,3mm
COIL5
COIL6
Cx
R8
47R
R7
47R
IC7
L78L05
IN
OUT
GND
nc
+12V
+5V_RR
C21
10uF
Massstab 101.39%
Alexander C. Frank
Blatt : CHARGER
Änderung 18.03.2022 19:03
Ausgabe 03.04.2022 07:35
Datei Ipamod_2022-V2.T3001
ETH QUANTUMOPTICS

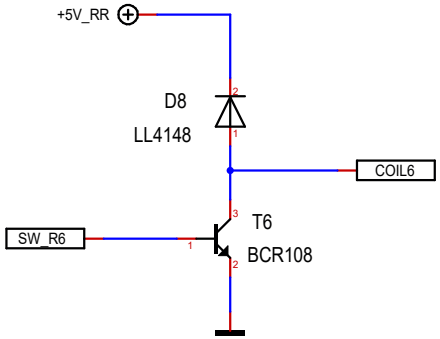






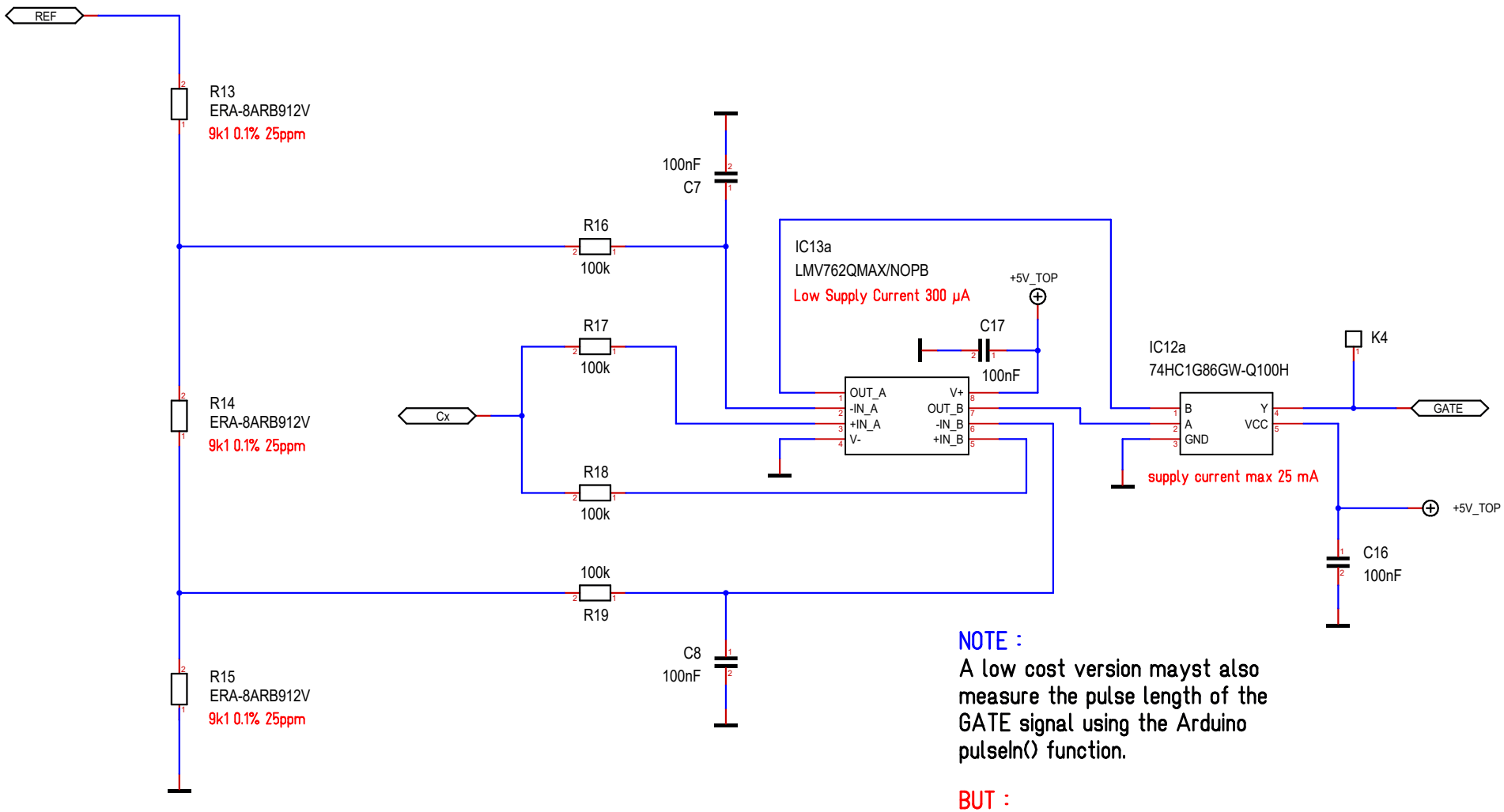






NOTE : BCR108 HAS BUILT IN RESISTORS

Massstab	101.39%	Alexander C. Frank	Blatt : DRIVER REED RELAIS
Änderung	18.03.2022 19:03		QUANTUMOPTICS
Ausgabe	03.04.2022 07:35		
Datei	Ipamod_2022-V2.T3001		



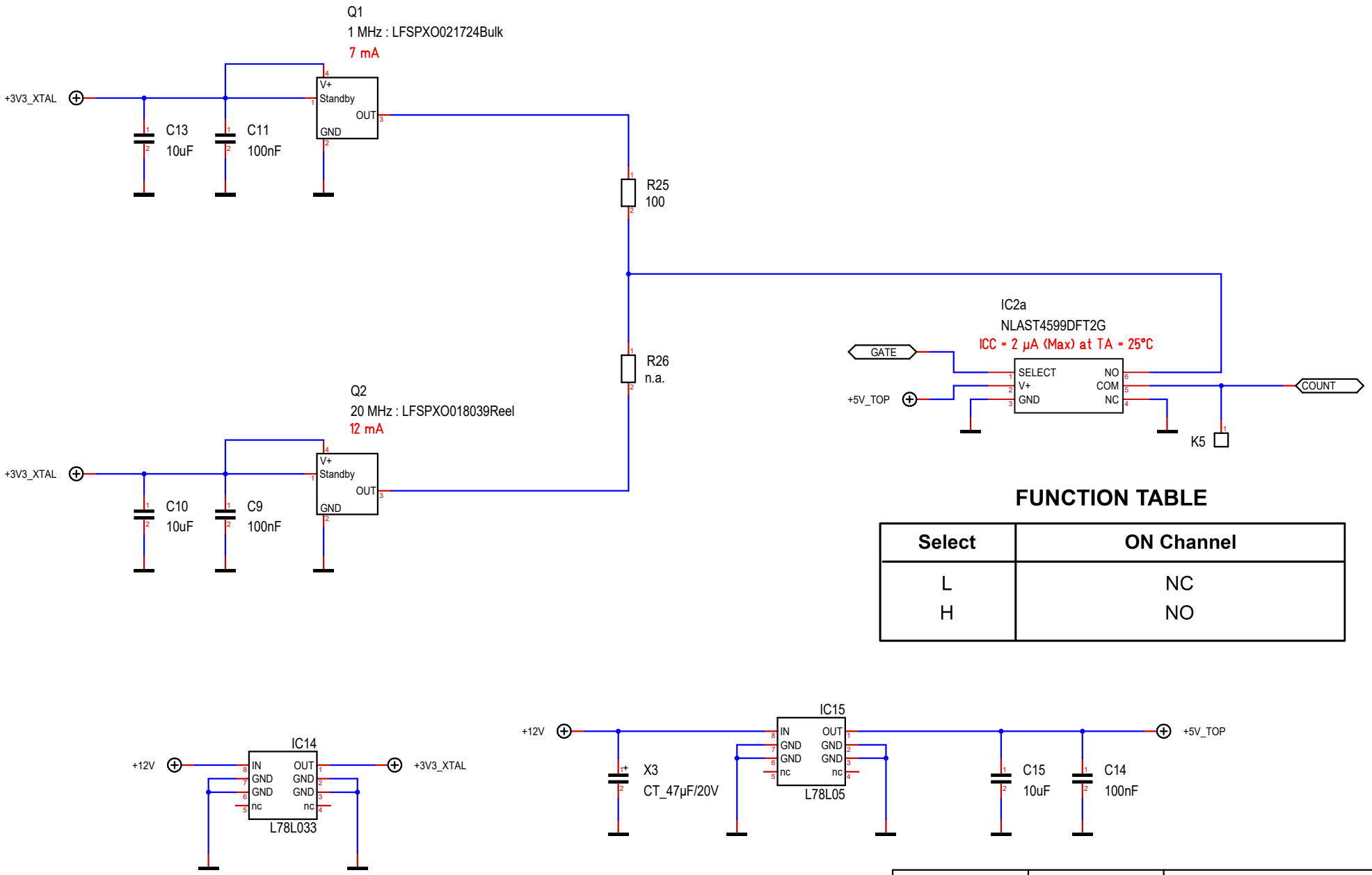
NOTE :

A low cost version mayst also measure the pulse length of the GATE signal using the Arduino pulseIn() function.

BUT :

"The timing of this function has been determined empirically and will probably show errors in longer pulses. Works on pulses from 10 microseconds to 3 minutes in length."

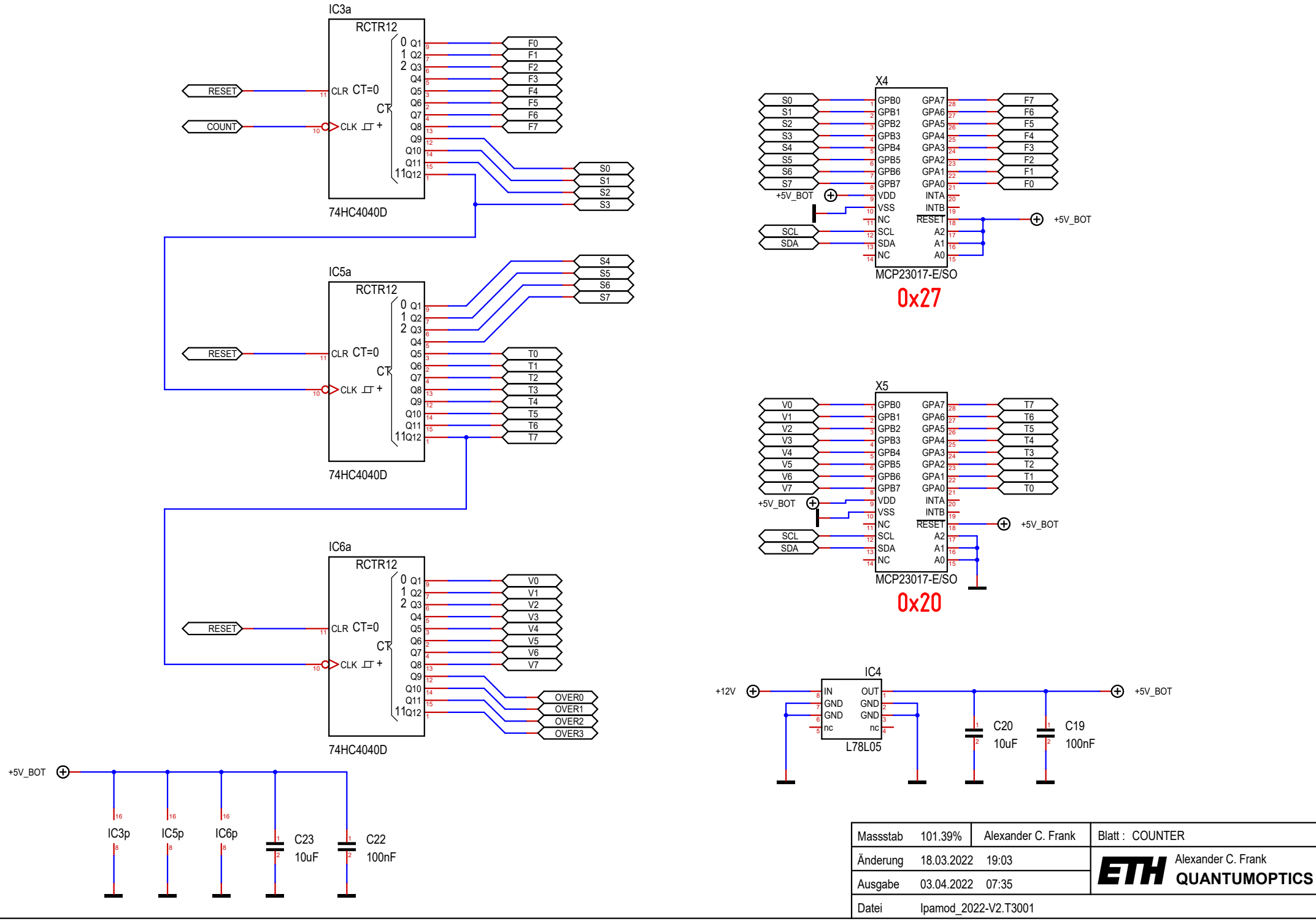
Massstab	101.39%	Alexander C. Frank	Blatt : COMPARATOR
Änderung	18.03.2022	19:03	ETH QUANTUMOPTICS
Ausgabe	03.04.2022	07:35	
Datei	Ipamod_2022-V2.T3001		



FUNCTION TABLE

Select	ON Channel
L	NC
H	NO

Massstab	101.39%	Alexander C. Frank	Blatt : XTAL
Änderung	18.03.2022	19:03	ETH QUANTUMOPTICS
Ausgabe	03.04.2022	07:35	
Datei	Ipamod_2022-V2.T3001		



Massstab	101.39%	Alexander C. Frank	Blatt : COUNTER
Änderung	18.03.2022	19:03	ETH Alexander C. Frank QUANTUMOPTICS
Ausgabe	03.04.2022	07:35	
Datei	Ipamod_2022-V2.T3001		