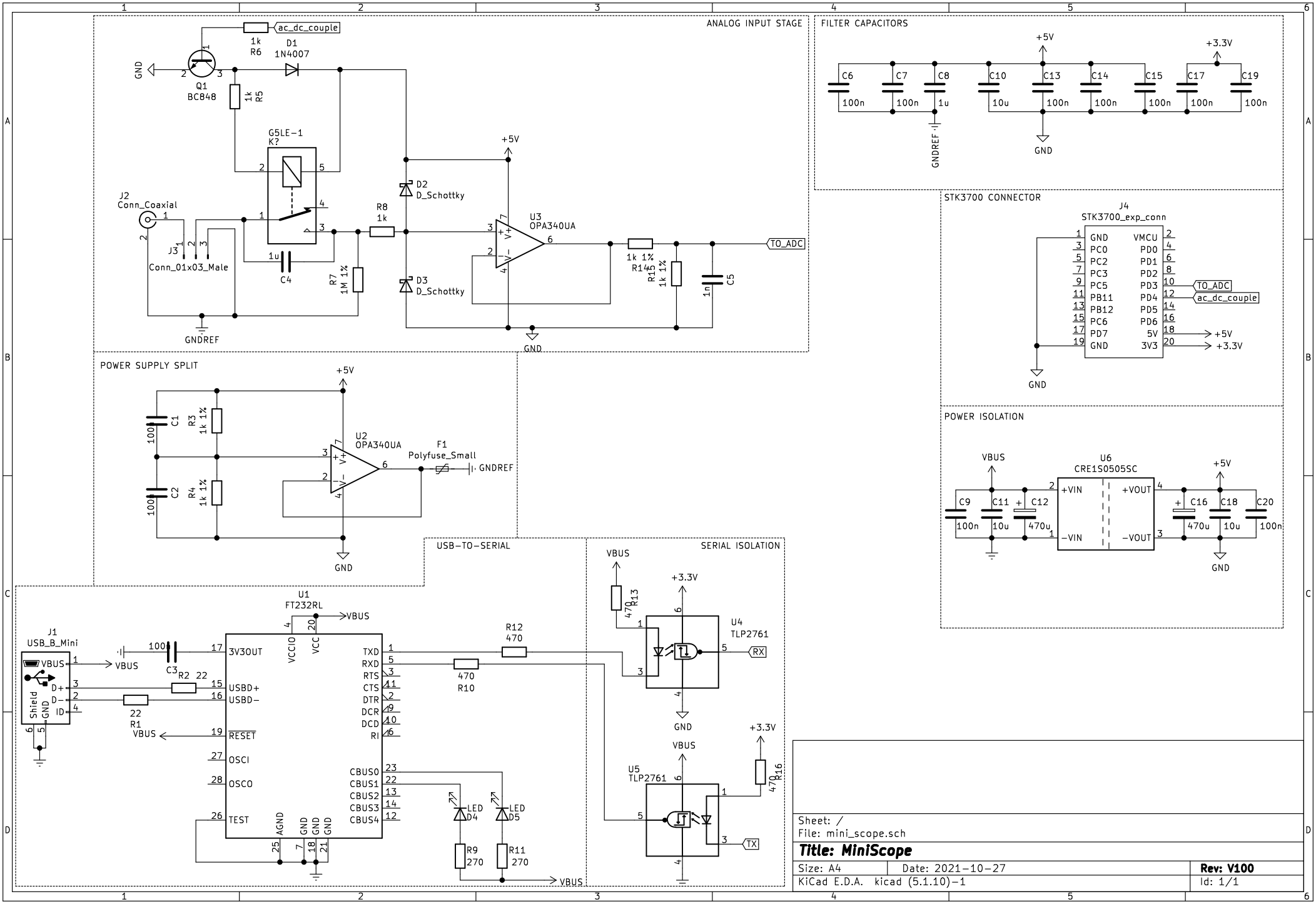
ANALOG INPUT STAGE
ac_dc_couple
1k
R6
D1
1N4007
GND
Q1
BC848
1k
R5
G5LE-1
K?
J2
Conn_Coaxial
J3
Conn_01x03_Male
1u
C4
R7
1M 1%
GNDREF
R8
1k
D2
D_Schottky
D3
D_Schottky
+5V
U3
OPA340UA
1k 1%
R14
R15
1k 1%
1n
C5
TO_ADC
GND
FILTER CAPACITORS
+5V
+3.3V
C6
C7
C8
C10
C13
C14
C15
C17
C19
100n
100n
1u
10u
100n
100n
100n
100n
100n
GNDREF
GND
STK3700 CONNECTOR
J4
STK3700_exp_conn
GND
PC0
PC2
PC3
PC5
PB11
PB12
PC6
PD7
GND
VMCU
PD0
PD1
PD2
PD3
PD4
PD5
PD6
5V
3V3
TO_ADC
ac_dc_couple
+5V
+3.3V
GND
POWER SUPPLY SPLIT
+5V
C1
100
R3
1k 1%
C2
100
R4
1k 1%
U2
OPA340UA
F1
Polyfuse_Small
GNDREF
GND
POWER ISOLATION
VBUS
U6
CRE1S0505SC
+5V
C9
100n
C11
10u
C12
470u
+VIN
-VIN
+VOUT
-VOUT
C16
470u
C18
10u
C20
100n
GND
USB-TO-SERIAL
SERIAL ISOLATION
J1
USB_B_Mini
VBUS
D+
D-
ID
GND
Shield
VBUS
C3
100
R2
22
R1
22
VBUS
U1
FT232RL
VBUS
3V3OUT
VCCIO
VCC
USBD+
USBD-
RESET
OSCI
OSCO
TEST
AGND
GND
TXD
RXD
RTS
CTS
DTR
DCR
DCD
RI
CBUS0
CBUS1
CBUS2
CBUS3
CBUS4
R12
470
470
R10
LED
D4
LED
D5
R9
270
R11
270
VBUS
VBUS
R13
470
+3.3V
U4
TLP2761
RX
GND
VBUS
+3.3V
U5
TLP2761
R16
470
TX
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Title: MiniScope
Size: A4
Date: 2021-10-27
Rev: V100
KiCad E.D.A. kicad (5.1.10)-1
Id: 1/1