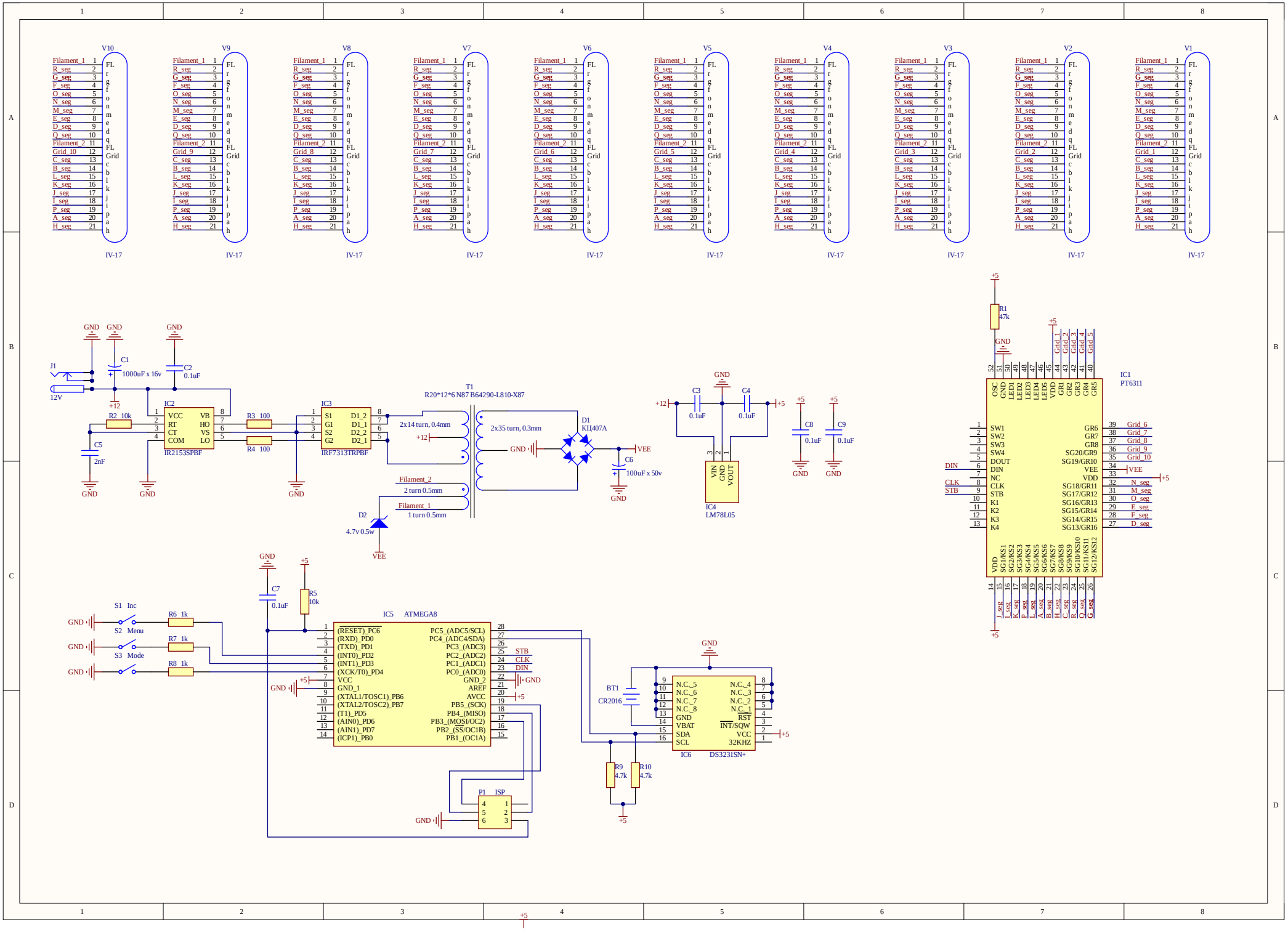
V10
V9
V8
V7
V6
V5
V4
V3
V2
V1
Filament_1
R_seg
G_seg
F_seg
O_seg
N_seg
M_seg
E_seg
D_seg
Q_seg
Filament_2
Grid_10
Grid_9
Grid_8
Grid_7
Grid_6
Grid_5
Grid_4
Grid_3
Grid_2
Grid_1
C_seg
B_seg
L_seg
K_seg
J_seg
I_seg
P_seg
A_seg
H_seg
FL
Grid
IV-17
J1
12V
C1
1000uF x 16v
C2
0.1uF
IC2
IR2153SPBF
VCC
RT
CT
COM
VB
HO
VS
LO
R2 10k
C5
2nF
R3 100
R4 100
IC3
IRF7313TRPBF
S1
S2
G1
G2
D1_2
D1_1
D2_2
D2_1
T1
R20*12*6 N87 B64290-L810-X87
2x14 turn, 0.4mm
2x35 turn, 0.3mm
Filament_2
2 turn 0.5mm
Filament_1
1 turn 0.5mm
D1
KIL407A
C6
100uF x 50v
D2
4.7v 0.5w
VEE
C3
0.1uF
C4
0.1uF
IC4
LM78L05
VIN
GND
VOUT
C8
0.1uF
C9
0.1uF
R1
47k
IC1
PT6311
OSC
GND
LED1
LED2
LED3
LED4
LED5
VDD
GR1
GR2
GR3
GR4
GR5
SW1
SW2
SW3
SW4
DOUT
DIN
NC
CLK
STB
K1
K2
K3
K4
GR6
GR7
GR8
SG20/GR9
SG19/GR10
VEE
VDD
SG18/GR11
SG17/GR12
SG16/GR13
SG15/GR14
SG14/GR15
SG13/GR16
SG1/KS1
SG2/KS2
SG3/KS3
SG4/KS4
SG5/KS5
SG6/KS6
SG7/KS7
SG8/KS8
SG9/KS9
SG10/KS10
SG11/KS11
SG12/KS12
C7
0.1uF
R5
10k
S1 Inc
S2 Menu
S3 Mode
R6 1k
R7 1k
R8 1k
IC5 ATMEGA8
(RESET)_PC6
(RXD)_PD0
(TXD)_PD1
(INT0)_PD2
(INT1)_PD3
(XCK/T0)_PD4
VCC
GND_1
(XTAL1/TOSC1)_PB6
(XTAL2/TOSC2)_PB7
(T1)_PD5
(AIN0)_PD6
(AIN1)_PD7
(ICP1)_PB0
PC5_(ADC5/SCL)
PC4_(ADC4/SDA)
PC3_(ADC3)
PC2_(ADC2)
PC1_(ADC1)
PC0_(ADC0)
GND_2
AREF
AVCC
PB5_(SCK)
PB4_(MISO)
PB3_(MOSI/OC2)
PB2_(SS/OC1B)
PB1_(OC1A)
P1 ISP
BT1
CR2016
IC6 DS3231SN+
N.C._5
N.C._6
N.C._7
N.C._8
GND
VBAT
SDA
SCL
N.C._4
N.C._3
N.C._2
N.C._1
RST
INT/SQW
VCC
32KHZ
R9
4.7k
R10
4.7k
DIN
CLK
STB
+5
+12
GND