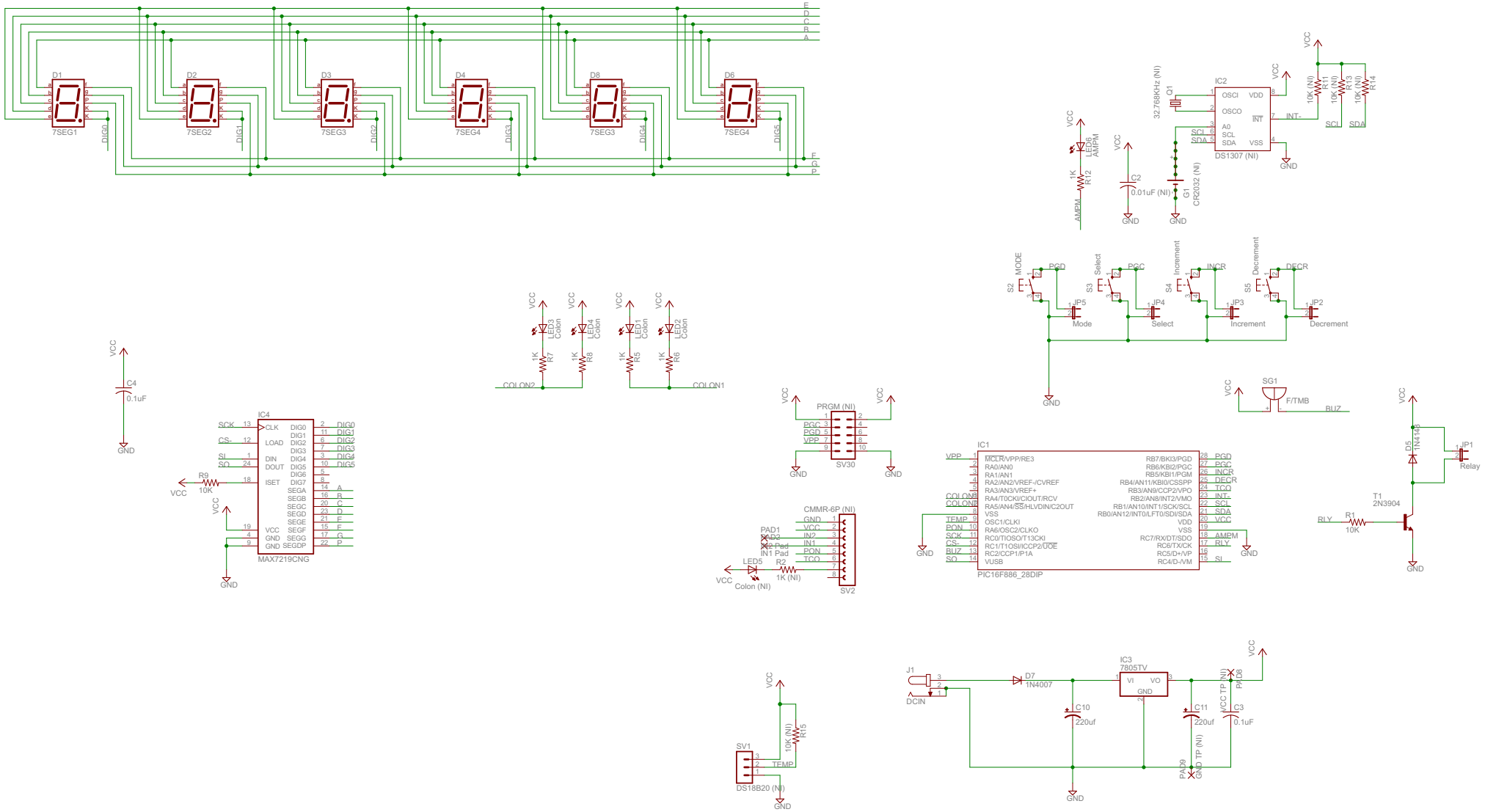
D1
7SEG1
D2
7SEG2
D3
7SEG3
D4
7SEG4
D8
7SEG3
D6
7SEG4
DIG0
DIG1
DIG2
DIG3
DIG4
DIG5
F
D
C
R
A
F
G
P
IC2
DS1307 (NI)
OSCI
OSCO
VDD
VSS
INT
A0
SCL
SDA
INT-
SCL
SDA
Q1
32.768Khz (NI)
G1
CR2032 (NI)
C2
0.01uF (NI)
R10 10K (NI)
R11 10K (NI)
R13 10K (NI)
R14 10K (NI)
LED6 AMPM
R12 1K
AMPM
VCC
GND
S2 MODE
S3 Select
S4 Increment
S5 Decrement
PGD
PGC
INCR
DECR
JP5 Mode
JP4 Select
JP3 Increment
JP2 Decrement
SG1
F/TMB
BUZ
LED3 Colon
LED4 Colon
LED1 Colon
LED2 Colon
R7 1K
R8 1K
R5 1K
R6 1K
COLON2
COLON1
C4
0.1uF
IC4
MAX7219CNG
SCK
CS-
SI
SO
CLK
LOAD
DIN
DOUT
ISET
DIG0
DIG1
DIG2
DIG3
DIG4
DIG5
DIG6
DIG7
SEGA
SEGB
SEGC
SEGD
SEGE
SEGF
SEGG
SEGDP
VCC
GND
R9 10K
PRGM (NI)
SV30
PGD
PGC
PGD
VPP
CMMR-6P (NI)
SV2
GND
VCC
IN2
IN1
PON
TCO
PAD1
PAD2
Pad
IN1 Pad
LED5
R2
1K (NI)
Colon (NI)
IC1
PIC16F886_28DIP
VPP
COLON8
COLON9
TEMP
PON
SCK
CS-
BUZ
SO
MCLR/VPP/RE3
RA0/AN0
RA1/AN1
RA2/AN2/VREF-/CVREF
RA3/AN3/VREF+
RA4/T0CKI/CIOUT/RCV
RA5/AN4/SS/HLVDIN/C2OUT
VSS
OSC1/CLKI
RA6/OSC2/CLKO
RC0/T1OSO/T13CKI
RC1/T1OSI/ICCP2/OOE
RC2/CCP1/P1A
VUSB
RB7/BKI3/PGD
RB6/KBI2/PGC
RB5/KBI1/PGM
RB4/AN11/KBI0/CSSPP
RB3/AN9/CCP2/VPO
RB2/AN8/INT2/VMO
RB1/AN10/INT1/SCK/SCL
RB0/AN12/INT0/LFT0/SDI/SDA
VDD
VSS
RC7/RX/DT/SDO
RC6/TX/CK
RC5/D+/VP
RC4/D-/VM
PGD
PGC
INCR
DECR
TCO
INT-
SCL
SDA
VCC
AMPM
RLY
SI
D5 1N4148
JP1 Relay
T1 2N3904
R1 10K
RLY
SV1
DS18B20 (NI)
TEMP
R15 10K (NI)
J1
DCIN
D7 1N4007
IC3 7805TV
VI
VO
GND
C10 220uf
C11 220uf
C3 0.1uF
VCC TP (NI)
GND TP (NI)
PAD08
PAD09