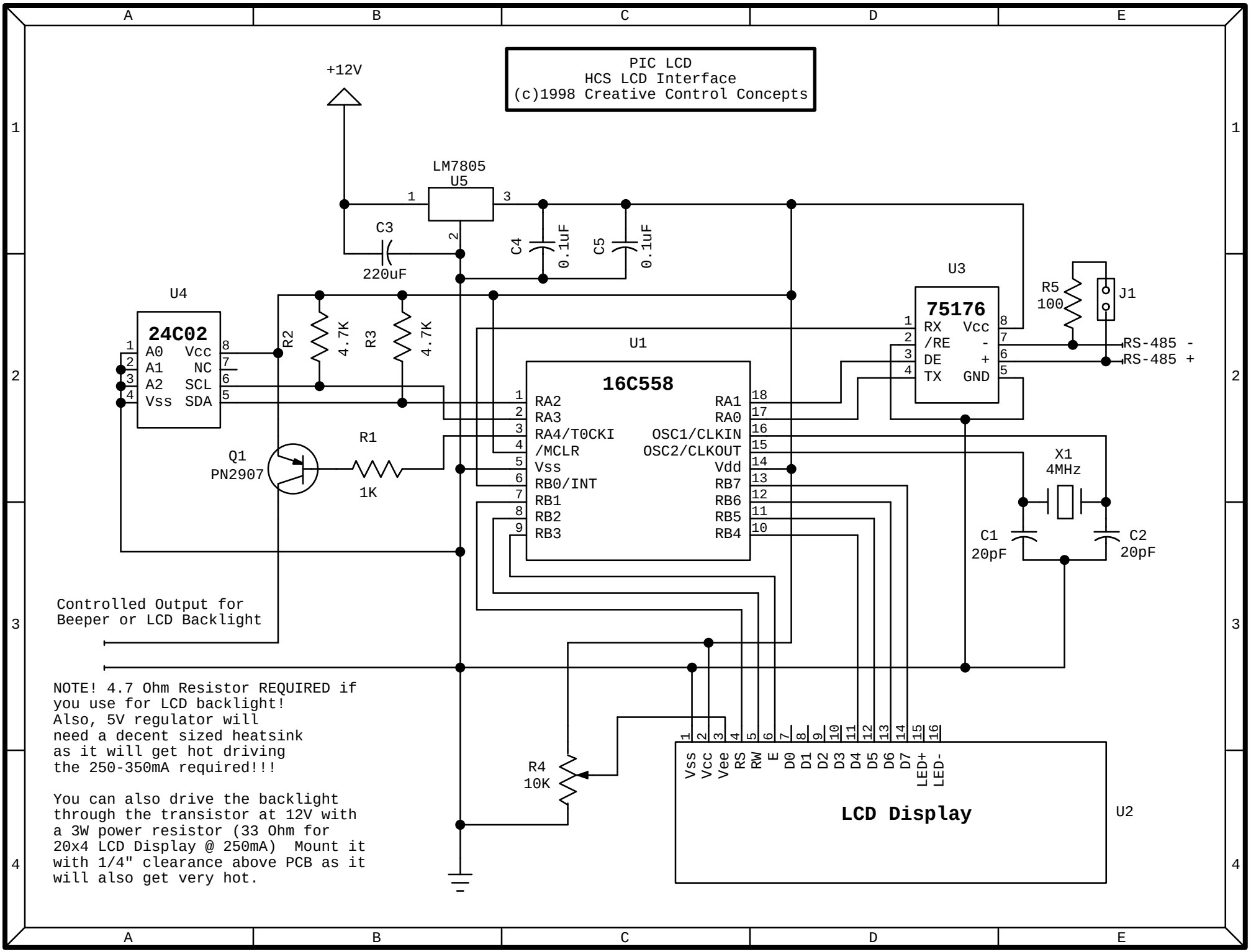
PIC LCD
HCS LCD Interface
(c)1998 Creative Control Concepts
+12V
LM7805
U5
C3
220uF
C4
0.1uF
C5
0.1uF
U4
24C02
A0 Vcc
A1 NC
A2 SCL
Vss SDA
R2
4.7K
R3
4.7K
U1
16C558
RA2 RA1
RA3 RA0
RA4/T0CKI OSC1/CLKIN
/MCLR OSC2/CLKOUT
Vss Vdd
RB0/INT RB7
RB1 RB6
RB2 RB5
RB3 RB4
U3
75176
RX Vcc
/RE -
DE +
TX GND
R5
100
J1
RS-485 -
RS-485 +
Q1
PN2907
R1
1K
X1
4MHz
C1
20pF
C2
20pF
Controlled Output for
Beeper or LCD Backlight
NOTE! 4.7 Ohm Resistor REQUIRED if
you use for LCD backlight!
Also, 5V regulator will
need a decent sized heatsink
as it will get hot driving
the 250-350mA required!!!
You can also drive the backlight
through the transistor at 12V with
a 3W power resistor (33 Ohm for
20x4 LCD Display @ 250mA) Mount it
with 1/4" clearance above PCB as it
will also get very hot.
R4
10K
Vss Vcc Vee RS RW E D0 D1 D2 D3 D4 D5 D6 D7 LED+ LED-
LCD Display
U2