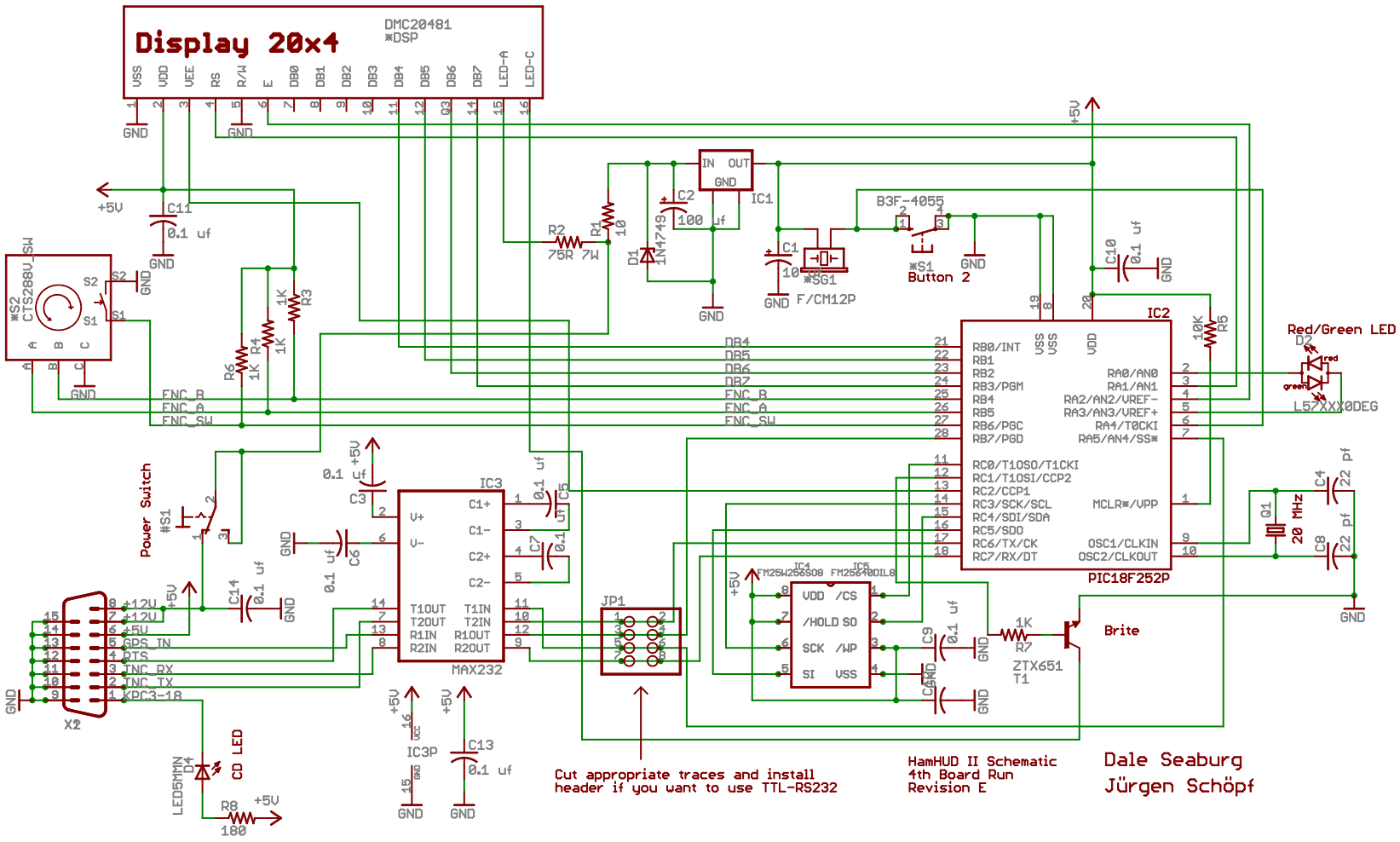
Display 20x4
DMC20481
*DSP
VSS VDD VEE RS R/W E DB0 DB1 DB2 DB3 DB4 DB5 DB6 DB7 LED-A LED-C
GND
+5V
C11
0.1 uf
*S2
CTS288V_SW
S2 S1 A B C
ENC_B
ENC_A
ENC_SW
R6 1K
R4 1K
R3 1K
R2
75R 7W
R1
10
D1
1N4719
C2
100 uf
IC1
IN OUT GND
C1
10
*SG1
F/CM12P
B3F-4055
*S1
Button 2
C10
0.1 uf
IC2
PIC18F252P
RB0/INT
RB1
RB2
RB3/PGM
RB4
RB5
RB6/PGC
RB7/PGD
RC0/T1OSO/T1CKI
RC1/T1OSI/CCP2
RC2/CCP1
RC3/SCK/SCL
RC4/SDI/SDA
RC5/SDO
RC6/TX/CK
RC7/RX/DT
RA0/AN0
RA1/AN1
RA2/AN2/VREF-
RA3/AN3/VREF+
RA4/T0CKI
RA5/AN4/SS*
MCLR*/VPP
OSC1/CLKIN
OSC2/CLKOUT
VSS VSS VDD
DB4
DB5
DB6
DB7
ENC_B
ENC_A
ENC_SW
10K
R5
Red/Green LED
D2
L57XXX0DEG
Power Switch
#S1
C3
0.1 uf
C6
0.1 uf
C5
0.1 uf
C7
0.1 uf
IC3
MAX232
C1+ C1- C2+ C2-
V+ V-
T1OUT T2OUT R1IN R2IN
T1IN T2IN R1OUT R2OUT
C14
0.1 uf
JP1
IC4
FM25W256S08
IC5
FM25640DIL8
VDD /CS
/HOLD SO
SCK /WP
SI VSS
C9
0.1 uf
C8
0.1 uf
1K
R7
ZTX651
T1
Brite
Q1
20 MHz
C4
22 pf
C8
22 pf
X2
+12V
+12V
+5V
GPS_IN
RTS
TNC_RX
TNC_TX
KPC3-18
IC3P
C13
0.1 uf
LED5MMN
D4
CD LED
R8
180
Cut appropriate traces and install
header if you want to use TTL-RS232
HamHUD II Schematic
4th Board Run
Revision E
Dale Seaburg
Jürgen Schöpf