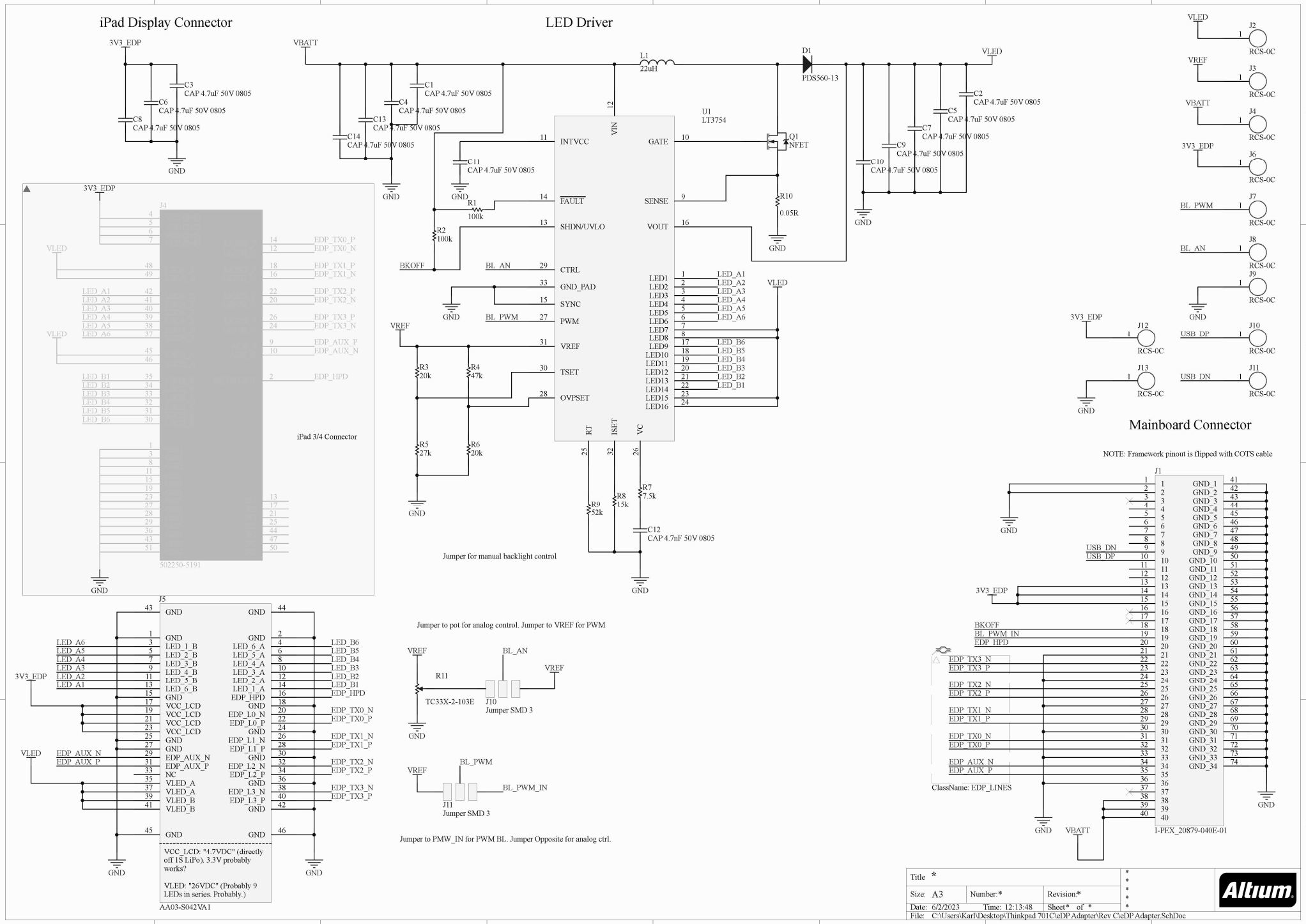
iPad Display Connector
LED Driver
Mainboard Connector
3V3_EDP
VBATT
VLED
VREF
GND
C3 CAP 4.7uF 50V 0805
C6 CAP 4.7uF 50V 0805
C8 CAP 4.7uF 50V 0805
C1 CAP 4.7uF 50V 0805
C4 CAP 4.7uF 50V 0805
C13 CAP 4.7uF 50V 0805
C14 CAP 4.7uF 50V 0805
C11 CAP 4.7uF 50V 0805
L1 22uH
D1 PDS560-13
C2 CAP 4.7uF 50V 0805
C5 CAP 4.7uF 50V 0805
C7 CAP 4.7uF 50V 0805
C9 CAP 4.7uF 50V 0805
C10 CAP 4.7uF 50V 0805
U1 LT3754
Q1 NFET
R10 0.05R
R1 100k
R2 100k
BKOFF
BL_AN
BL_PWM
R3 20k
R4 47k
R5 27k
R6 20k
R7 7.5k
R8 15k
R9 52k
C12 CAP 4.7nF 50V 0805
INTVCC
FAULT
SHDN/UVLO
CTRL
GND_PAD
SYNC
PWM
VREF
TSET
OVPSET
VIN
GATE
SENSE
VOUT
RT
ISET
VC
LED1 LED_A1
LED2 LED_A2
LED3 LED_A3
LED4 LED_A4
LED5 LED_A5
LED6 LED_A6
LED7
LED8
LED9 LED_B6
LED10 LED_B5
LED11 LED_B4
LED12 LED_B3
LED13 LED_B2
LED14 LED_B1
LED15
LED16
J2 RCS-0C
J3 RCS-0C
J4 RCS-0C
J6 RCS-0C
J7 RCS-0C
J8 RCS-0C
J9 RCS-0C
J10 RCS-0C
J11 RCS-0C
J12 RCS-0C
J13 RCS-0C
USB_DP
USB_DN
J4
502250-5191
iPad 3/4 Connector
EDP_TX0_P
EDP_TX0_N
EDP_TX1_P
EDP_TX1_N
EDP_TX2_P
EDP_TX2_N
EDP_TX3_P
EDP_TX3_N
EDP_AUX_P
EDP_AUX_N
EDP_HPD
Jumper for manual backlight control
J5
AA03-S042VA1
VCC_LCD: "1.7VDC" (directly off 1S LiPo). 3.3V probably works?
VLED: "26VDC" (Probably 9 LEDs in series. Probably.)
Jumper to pot for analog control. Jumper to VREF for PWM
R11
TC33X-2-103E
J10 Jumper SMD 3
J11 Jumper SMD 3
Jumper to PMW_IN for PWM BL. Jumper Opposite for analog ctrl.
NOTE: Framework pinout is flipped with COTS cable
J1
I-PEX_20879-040E-01
ClassName: EDP_LINES
Title *
Size: A3
Number:*
Revision:*
Date: 6/2/2023
Time: 12:13:48
Sheet* of *
File: C:\Users\Karl\Desktop\Thinkpad 701C\eDP Adapter\Rev C\eDP Adapter.SchDoc
Altium