Layers 4 | PCB Thickness 1.6 | Inner Copper Weight 0.5oz | Outer Copper Weight 1oz | Unit mm

Impedance Configure

+ New Impedance | Duplicate Impedance | Calculate

Impedance (Ω)	Type	Signal Layer	Top Ref	Bottom Ref	Trace Spacing (mm)	Impedance trace to copper (mm)
100	Differential Pair (Non coplanar)	L1	/	L2	0.2	/

JLC04161H-3313(Finished thickness1.56mm±10%) | JLC04161H-3313A(Special/Finished thickness1.58mm±10%) | JLC04161H-7628(Standard/Finished thickness1.59mm±10%)

Impedance (Ω)	Type	Signal Layer	Top Ref	Bottom Ref	Trace Width	Trace Spacing	Impedance trace to copper
100	Differential Pair (Non coplanar)	L1	/	L2	0.1232	0.2000	/

Layer	Material	Thickness (mil)	Thickness (mm)
L1	Outer Copper Weight1oz	1.38	0.0350
Prepreg	3313 RC57% 4.2mil	3.91	0.0994
L2	Inner Copper Weight	0.60	0.0152
Core	1.3mm H/HOZ with copper	49.80	1.2650
L3	Inner Copper Weight	0.60	0.0152
Prepreg	3313 RC57% 4.2mil	3.91	0.0994
L4	Outer Copper Weight1oz	1.38	0.0350

STM2LCD

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PWR

File: PWM.kicad_sch

Sheet: /
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Title:

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J1
2-84953-0
STM_DSI
D1_N
D1_P
CLK_N
CLK_P
D0_N
D0_P
SHIELD
+3V3
+3V3 Source
GND
R4 0
R5 0
R3 330
TE
DC_LED_PWM
U4
PCA9306DCURG4
VREF2
VREF1
EN
SCL2
SDA2
SCL1
SDA1
GND
200k
R23
0.47uF
C9
R25 0
R24 0
R26 0
R27 0
TP_SCL
TP_SDA
1k
R21
1k
R22
+1V8
VD1
BAS70-06.215
DON'T USE INTERNAL PULL UP OR PD
R29 330
TP_INT
10k
R9
RESET
TP6
TestPoint
Q1
2N7002
R6 200k
10k
R8
TP_RES
TP_RES_STM_SIDE
R1 330
Q2
2N7002
10k
R7
J3
RPi_GPIO
3.3V
BCM2_SDA
BCM3_SCL
BCM4_GPCLK0
GND
BCM17
BCM27
BCM22
3.3V
BCM10_MOSI
BCM9_MISO
BCM11_SCLK
GND
BCM0_ID_SD
BCM5
BCM6
BCM13_PWM1
BCM19_MISO_PCM_FS
BCM26
GND
5V
5V
GND
BCM14_TXD
BCM15_RXD
BCM18_PCM_C
GND
BCM23
BCM24
GND
BCM25
BCM8_CE0
BCM7_CE1
BCM1_ID_SC
GND
BCM12_PWM0
GND
BCM16
BCM20_MOSI_PCM_DI
BCM21_SCLK_PCM_DO
J4
Conn_02x20_Odd_Even
R19 0
R28 0
R2 0
R10 0
R20 0
LCM_ID
TP_RES_STM_SIDE
TE
PWM
DC_LED_PWM
C11
0.47uF
+2V8
C10
0.47uF
FH12-30S-0.5SH_55_
SHIELD__1
SHIELD
LED_A
LED_K
LED_K
RESET
TE
PWM
D0_P
D0_N
D1_P
D1_N
CLK_P
CLK_N
D2_P
D2_N
D3_P
D3_N
TP_INT
TP_SDA
TP_SCL
TP_RES
LCM_ID
J2
C12
0.47uF
C13
100nF
C15
100nF
C14
100nF
C16
100nF
TP3
TestPoint
TP_SDA
TP2
TestPoint
TP_SCL
TP4
TestPoint
TP1
TestPoint
TP_INT
TP5
TestPoint
TP_RES
TP16
TestPoint
RESET
TP15
TestPoint
DC_LED_PWM
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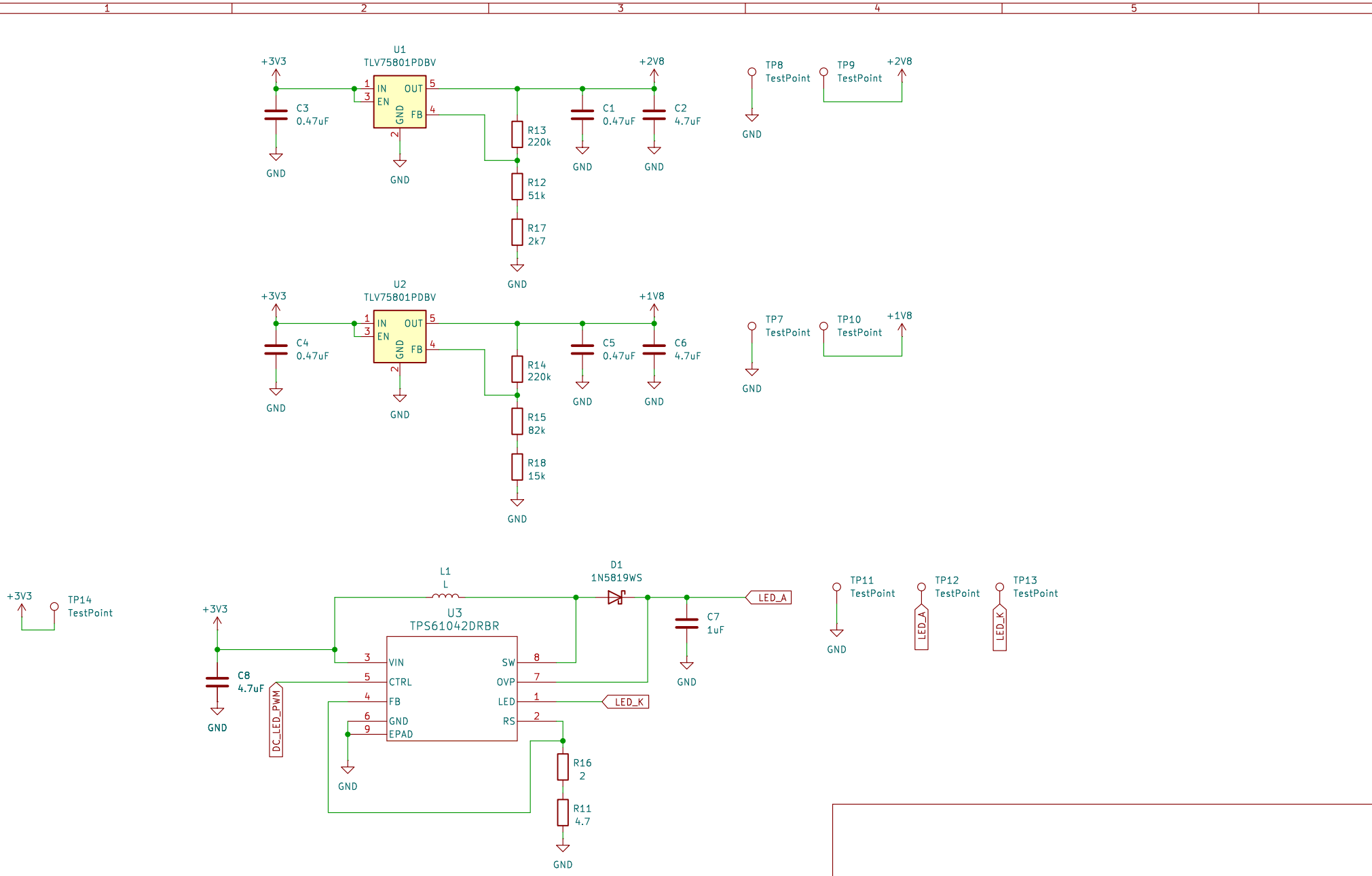

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