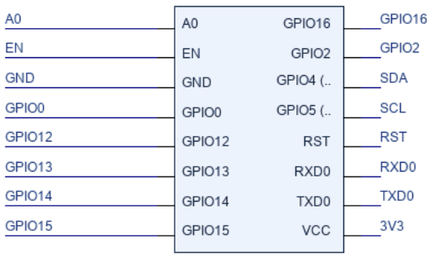
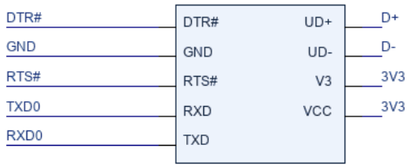
Main Circuit And Support

U1
ESP-12F ESP8266 Wi-Fi module, 4MB flash, PCB antenna



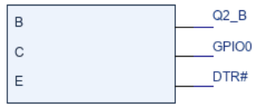
U3
CH340C USB-UART, internal clock



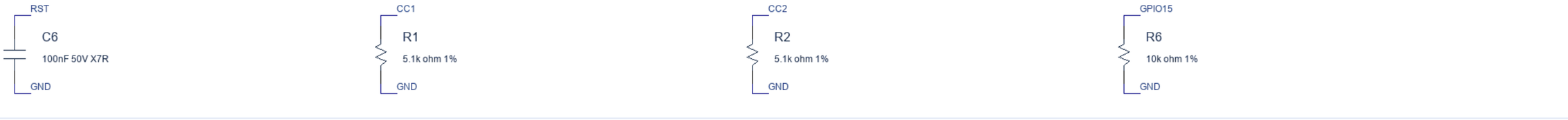
Q1
SS8050 NPN 25V 1.5A



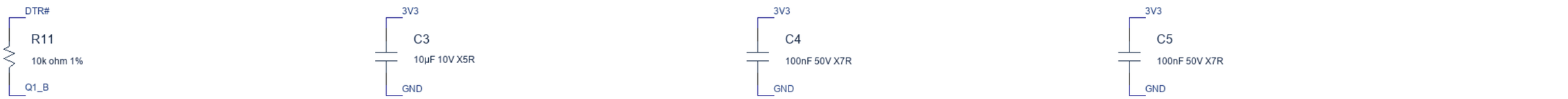
Q2
SS8050 NPN 25V 1.5A



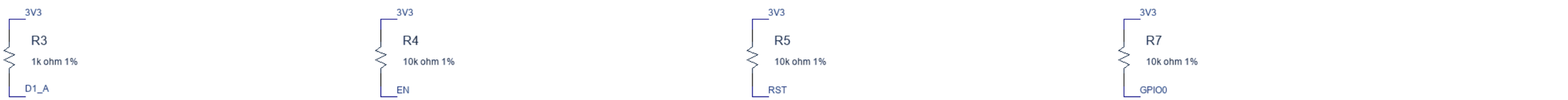
Main Circuit And Support



Main Circuit And Support



Main Circuit And Support



DESIGN NOTES

Matching net labels identify connected signals.

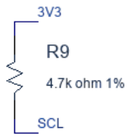
Assembly and DNP details are stored with each component.

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PROJECT / DOCUMENT: Esp8266 Esp12F Usbc Board			STATUS: DESIGN REVIEW
DRAWN BY: ElectroTrical	CHECKED BY: -	DATE: 2026-11-12	REVISION: A
DOCUMENT NUMBER: ET-M17-SCH-001		FORMAT: A3 / LANDSCAPE	SHEET: 1 of 3

Main Circuit And Support







SW1

Tactile switch 5.1x5.1mm SMD

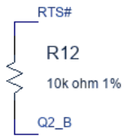


Main Circuit And Support

SW2

Tactile switch 5.1x5.1mm SMD

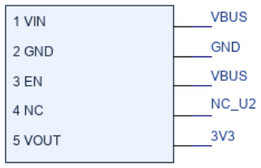


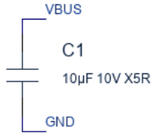


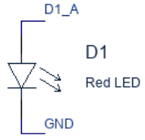
Power And Indicators

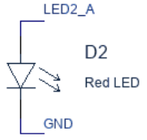
U2

AP2112K-3.3 LDO 600mA

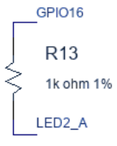


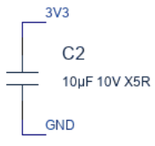






Power And Indicators





DESIGN NOTES

Matching net labels identify connected signals.

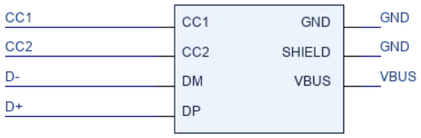
Assembly and DNP details are stored with each component.

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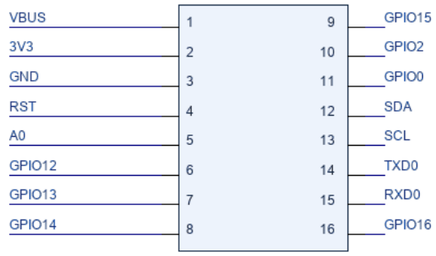
PROJECT / DOCUMENT		STATUS	
Esp8266 Esp12F Usbc Board		DESIGN REVIEW	
DRAWN BY	CHECKED BY	DATE	REVISION
ElectroTrical	-	2026-11-12	A
DOCUMENT NUMBER		FORMAT	SHEET
ET-M17-SCH-002		A3 / LANDSCAPE	2 of 3

Connectors

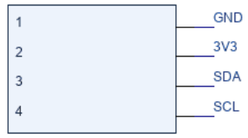
J1
USB-C 16P receptacle (USB 2.0)



J3 DNP
2.54mm male pin header (ship loose)



J4
JST SH 4P R/A (Qwiic/STEMMA QT)



DESIGN NOTES

Matching net labels identify connected signals.

Assembly and DNP details are stored with each component.

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PROJECT / DOCUMENT: Esp8266 Esp12F Usbc Board			STATUS: DESIGN REVIEW
DRAWN BY: ElectroTrical	CHECKED BY: -	DATE: 2026-11-12	REVISION: A
DOCUMENT NUMBER: ET-M17-SCH-003		FORMAT: A3 / LANDSCAPE	SHEET: 3 of 3