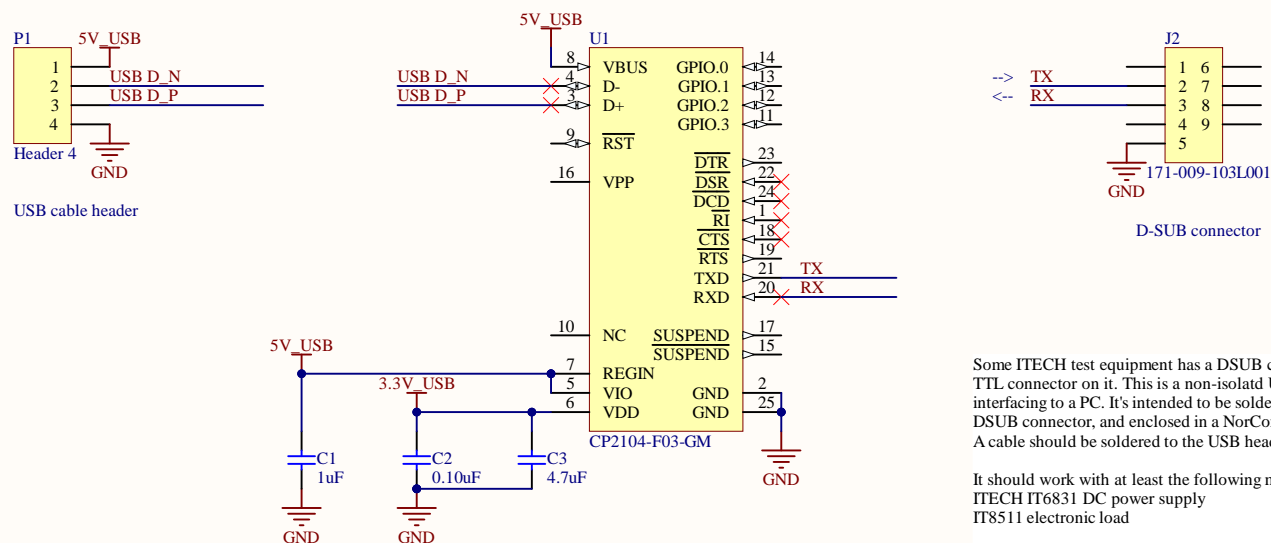


USB adapter for ITECH Test Equipment

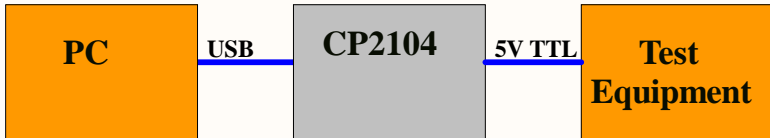
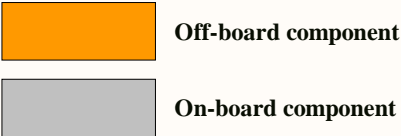


Note: CP2104 configured for USB power

Some ITECH test equipment has a DSUB connector with a standard-breaking 5V TTL connector on it. This is a non-isolated USB converter for this equipment, for interfacing to a PC. It's intended to be soldered to a NorComp 171-009-103L001 DSUB connector, and enclosed in a NorComp 977-009-020R121 shroud. A USB cable should be soldered to the USB header.

It should work with at least the following models:
ITECH IT6831 DC power supply
IT8511 electronic load

Legend



Title: USB adapter for ITECH Test Equipment

Project: ITECH USB adapter

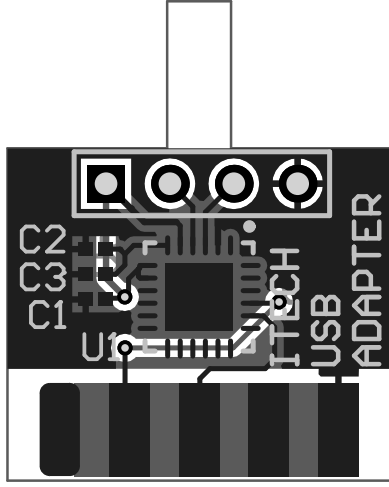
Revision: RevA

Date: 1/6/2021

Time: 5:43:05 PM

Sheet * of *





Design Rules Verification Report

Filename : C:\Users\blinkinlabs\Blinkinlabs-Repos\itech_usb_serial\pcb\PCB1.PcbDoc

Warnings 0
Rule Violations 50

Warnings	
Total	0

Rule Violations	
Clearance Constraint (Gap=0.254mm) (All),(All)	3
Short-Circuit Constraint (Allowed=No) (All),(All)	0
Un-Routed Net Constraint (All)	0
Modified Polygon (Allow modified: No), (Allow shelved: No)	0
Width Constraint (Min=0.2mm) (Max=0.254mm) (Preferred=0.254mm) (All)	0
Power Plane Connect Rule(Relief Connect)(Expansion=0.508mm) (Conductor	0
Width=0.254mm)	0
Hole Size Constraint (Min=0.025mm) (Max=2.54mm) (All)	0
Hole To Hole Clearance (Gap=0.254mm) (All),(All)	0
Minimum Solder Mask Sliver (Gap=0.254mm) (All),(All)	47
Silk To Solder Mask (Clearance=0.254mm) (Is Pad),(All)	0
Silk to Silk (Clearance=0.254mm) (All),(All)	0
Net Antennae (Tolerance=0mm) (All)	0
Room Sheet1 (Bounding Region = (57.02mm, 53.42mm, 100.92mm, 96.62mm)	0
Height Constraint (Min=0mm) (Max=25.4mm) (Preferred=12.7mm) (All)	0
Total	50

Clearance Constraint (Gap=0.254mm) (All),(All)	
Clearance Constraint: (0.22mm < 0.254mm) Between Pad C1-1(3.89mm,7.2mm) on Top Layer And Pad	
Clearance Constraint: (0.22mm < 0.254mm) Between Pad C2-1(3.11mm,9.2mm) on Top Layer And Pac	
Clearance Constraint: (0.22mm < 0.254mm) Between Pad C3-1(3.89mm,8.2mm) on Top Layer And Pad	

Electrical Rules Check Report

Class	Document	Message
Warning	Sheet1.SchDoc	Component U1 CP2104-F03-GM at 5000mil,5600mil: Component revision is Out of Date.

