i2 MICRO iCON PCB ASSEMBLY

84 PIN HEADER, PART # 510 109 204 • 60 PIN HEADER, PART # 510 109 206

MOUNTING BRACKET, PART # 310 113 562

TOOLS REQUIRED

Phillips Head Screwdriver

ASSEMBLY INSTRUCTIONS

1. Assemble two headers to the PCB. See next page for recommended PCB layout.
   NOTE: To ensure a secure connection without damaging the PCB, the board must be properly supported between the mounting holes to distribute pressure evenly. Otherwise, the insertion force may be high enough to damage or break the board. Reference VPC part # 910 121 199 if a tool is needed.

2. Using the Phillips head screwdriver, secure the headers and mounting bracket (Part # 310 113 562) to the PCB using the supplied 2 mm screws (**Figure A**).

3. Secure the receiver to the mounting panel (**Figure B**) following the recommended panel cutout (see Section 3).

4. Using the Phillips head screwdriver, press the PCB and headers onto the receiver and secure the mounting bracket to the receiver using the supplied captive 2-56 screw (**Figure C**).

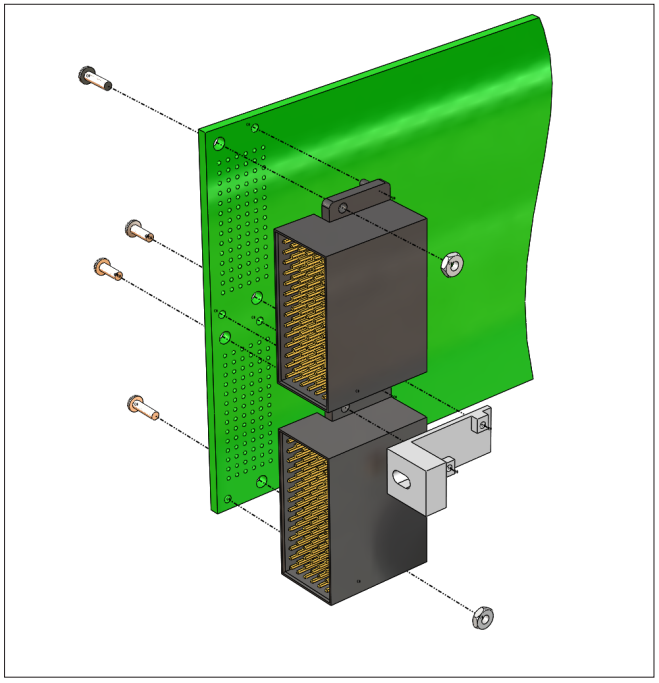


Figure A. Secure headers and mounting bracket to PCB.

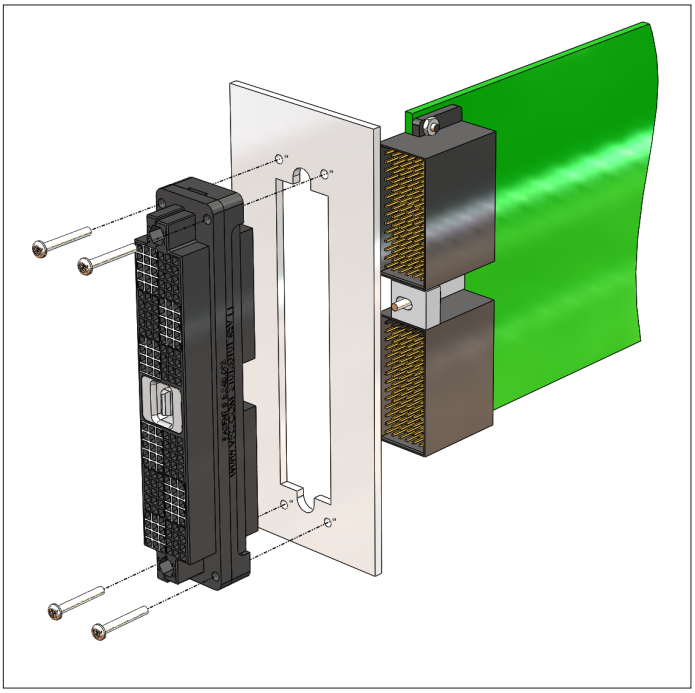


Figure B. Secure receiver to mounting panel.

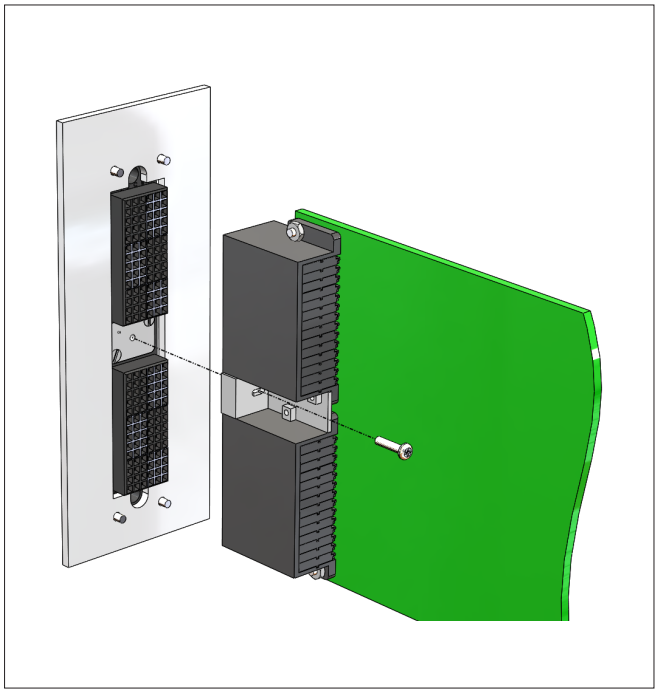


Figure C. Secure mounting bracket to receiver.

i2 MICRO iCON PCB LAYOUT

HEADER, 84 POSITION RIGHT ANGLE WITH COMPLIANT PIN • PART # 510 109 204

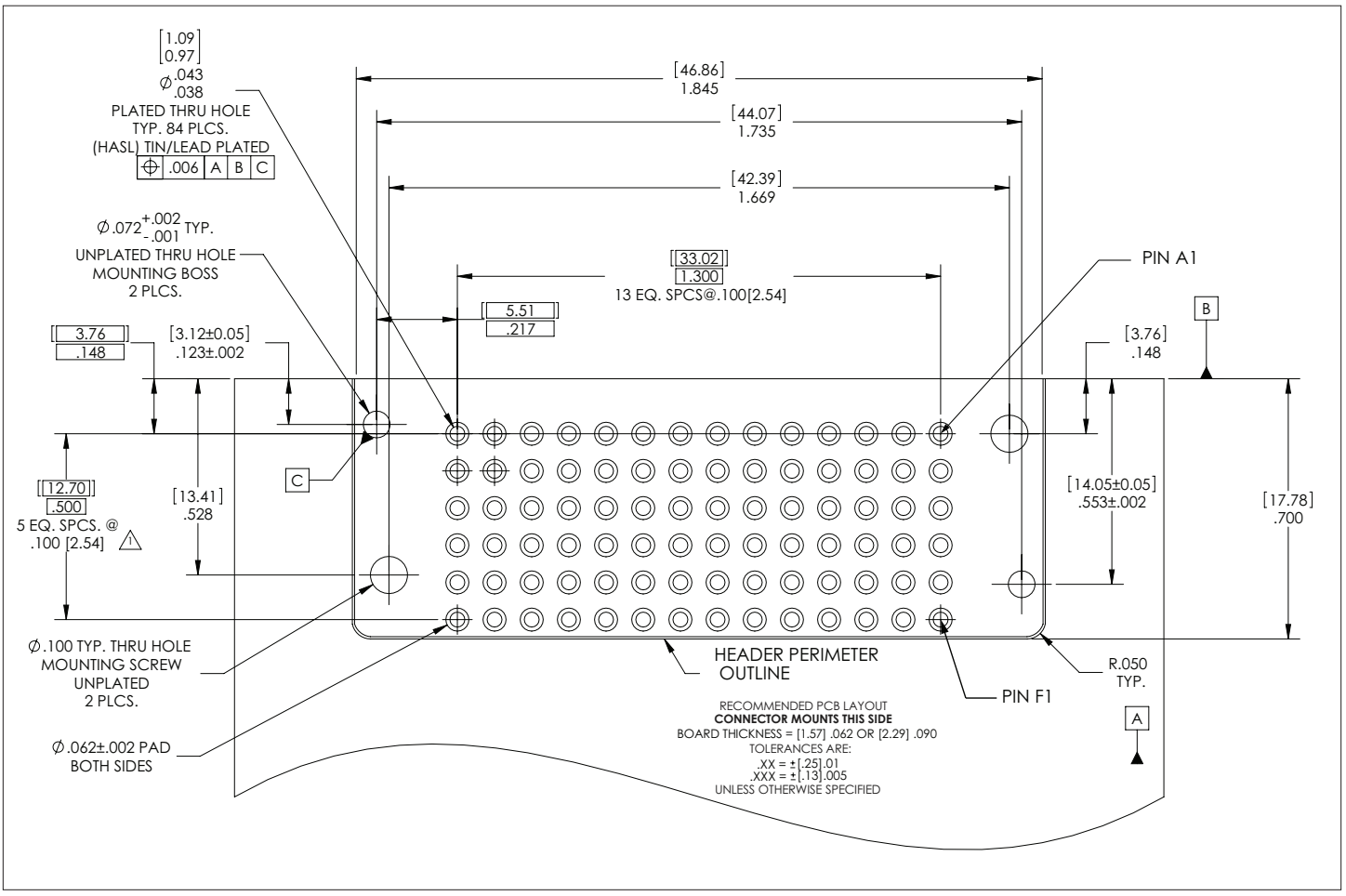


Figure A. PCB layout. Connector mounts this side.
Board thickness = [1.57] .062 or [2.29] .090

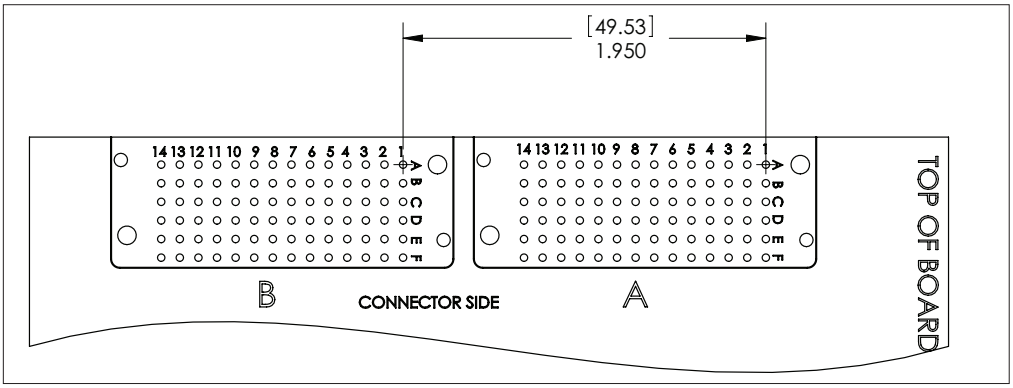


Figure B. Two header layout for 310 130 101 receiver.

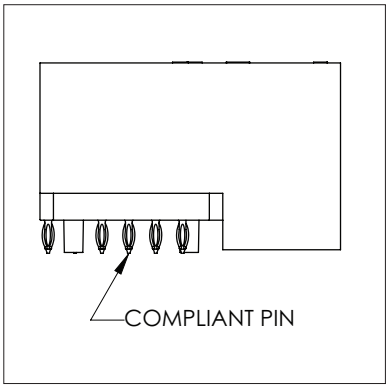


Figure C. Compliant header pin.

i2 MICRO iCON STANDARD PCB LAYOUT

i2 RECEIVER • PART # 310 130 101

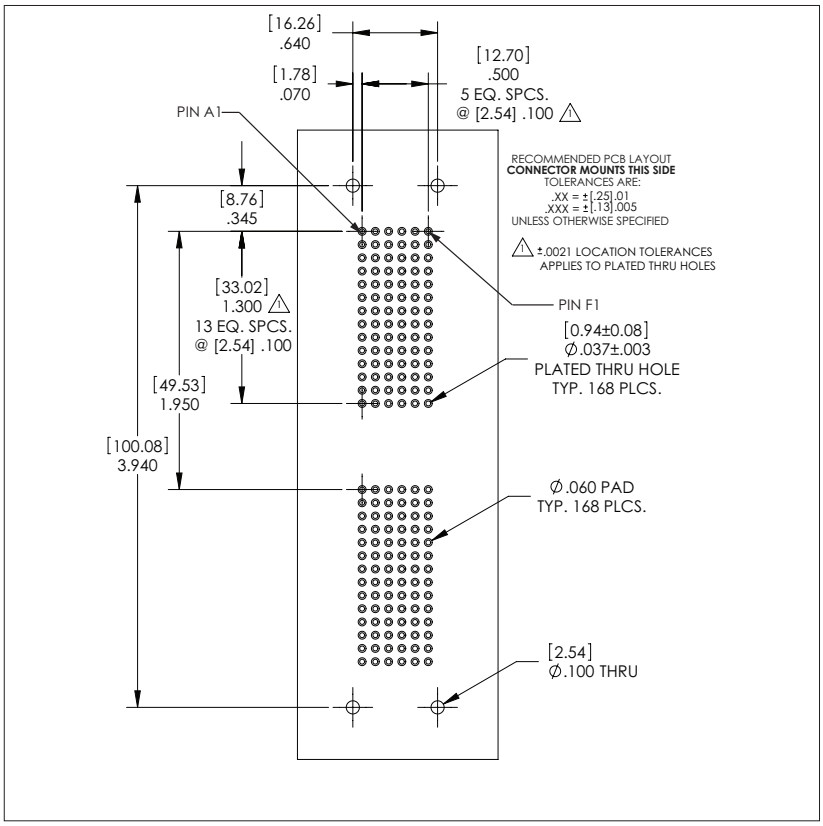


Figure A. PCB layout for i2 receiver, Part # 310 130 101. Thru hole and pad diameters are for VPC QuadraPaddle male Adapter Contact, Part # 610 138 117. The size of these holes may be different if a header from a different manufacturer is used. Connector mounts this side.

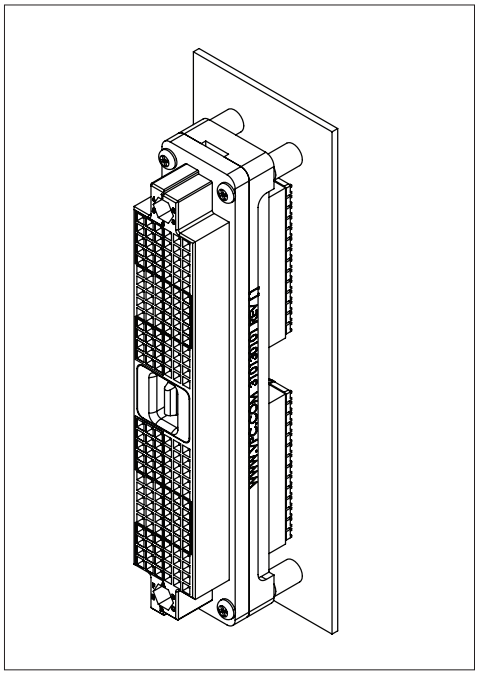


Figure B. i2 receiver, Part # 310 130 101, loaded with twin female contacts, Part # 610 138 200. Twin male headers are used to connect the female contacts to the PCB plated thru holes.

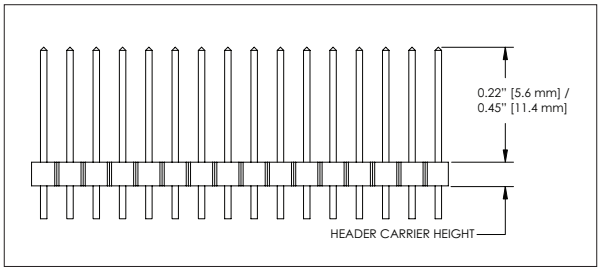


Figure C. Twin male header.

NOTE: Figure C details 0.22" [5.59 mm]/0.45" [11.43 mm] min/max engagement.
NOTE: Minimum spacer height = 0.24" + header carrier height - panel thickness (if used).
Any additional height beyond this minimum must be added to the header post limits shown in Figure C.

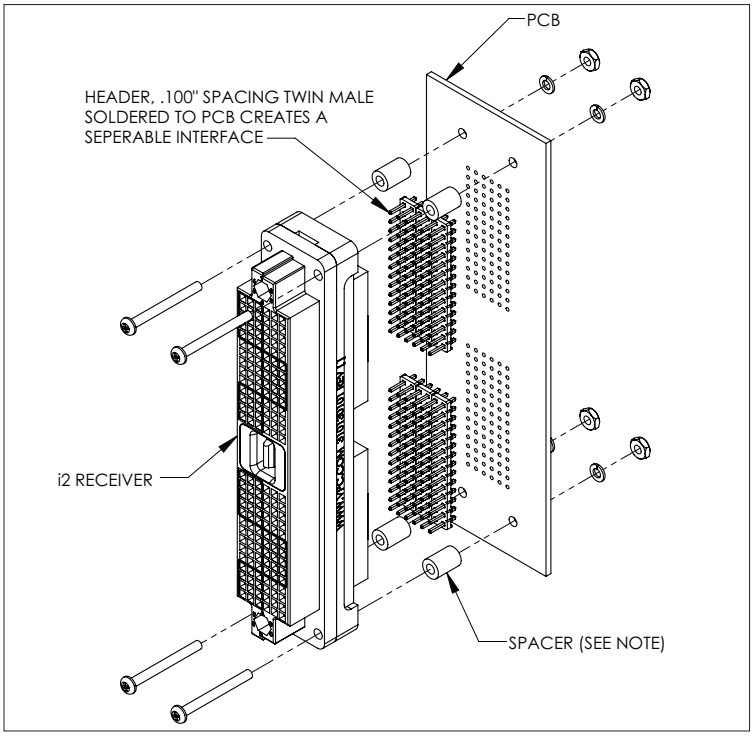


Figure D. A PCB can be mounted directly to the back of an i2 receiver as shown above. Four 2-56 or M2 screws are required to mount the receiver. Spacers may be needed to prevent unwanted stress on the PCB.