

SCXI-1381K CUSTOM TERMINAL BLOCK ASSEMBLY

This guide explains how to assemble your SCXI-1381K custom terminal block assembly kit and includes specifications for designing your own circuit boards.

Introduction

The SCXI-1381K custom terminal block assembly kit includes the unassembled components you need to build a custom SCXI terminal block, but not the actual circuit board. All of the mechanical components of an SCXI terminal block, such as the metal enclosure, front and back panels, and connectors, are included. A 96-position, right-angle DIN connector also is included for attaching to your custom circuit board, if needed.

The SCXI-1381K is intended for developers of custom SCXI terminal blocks who design and lay out custom circuit boards for terminal blocks.

What You Need to Get Started

To use your SCXI-1381K to build a custom SCXI terminal block, you will need the following:

- ❑ SCXI-1381K custom terminal block assembly kit

SCXI-1381K Custom Terminal Block Assembly Installation Guide

Terminal block base

Terminal block cover

Top strain-relief bar

Two self-adhesive rubber foam strips

Two 6-32 ⁵/₈ screws

One eyelet solder terminals

One 4-40 ⁵/₁₆ screw

Two 4-40 shoulder screws

Two 4-40 x.29 captive cover screws

Two thumbscrews

One 96-position, right-angle DIN connector

One identification label
One front panel overlay

- No. 1 and No. 2 Phillips-head screwdrivers

Installation

Refer to Figure 1 as you install your custom circuit board into the SCXI-1381K custom terminal block assembly.

1. Attach the self-adhesive rubber foam to the top and bottom strain-relief bars.
2. Screw the strain-relief bars together with the two 6-32 ⁵/₈ screws using the No. 2 Phillips-head screwdriver.
3. Using the No. 1 Phillips-head screwdriver, attach the No. 4 eyelet solder lock terminal to the SCXI terminal block base with the 4-40 ³/₁₆ screw as shown.
4. Attach the self-adhesive front panel overlay to the enclosure base.
5. Slide your circuit board into the slots in the SCXI enclosure base.
6. Using a No. 1 Phillips-head screwdriver, attach your circuit board to the enclosure base with two 4-40 shoulder screws as shown.
7. Attach the enclosure cover to the enclosure base with two 4-40 captive screws. These screws also ground the cover.
8. Attach the thumbscrews. These thumbscrews are used to attach your custom terminal block to an SCXI chassis.

Assembly is complete. You are now ready to attach cabling to your custom circuit board.

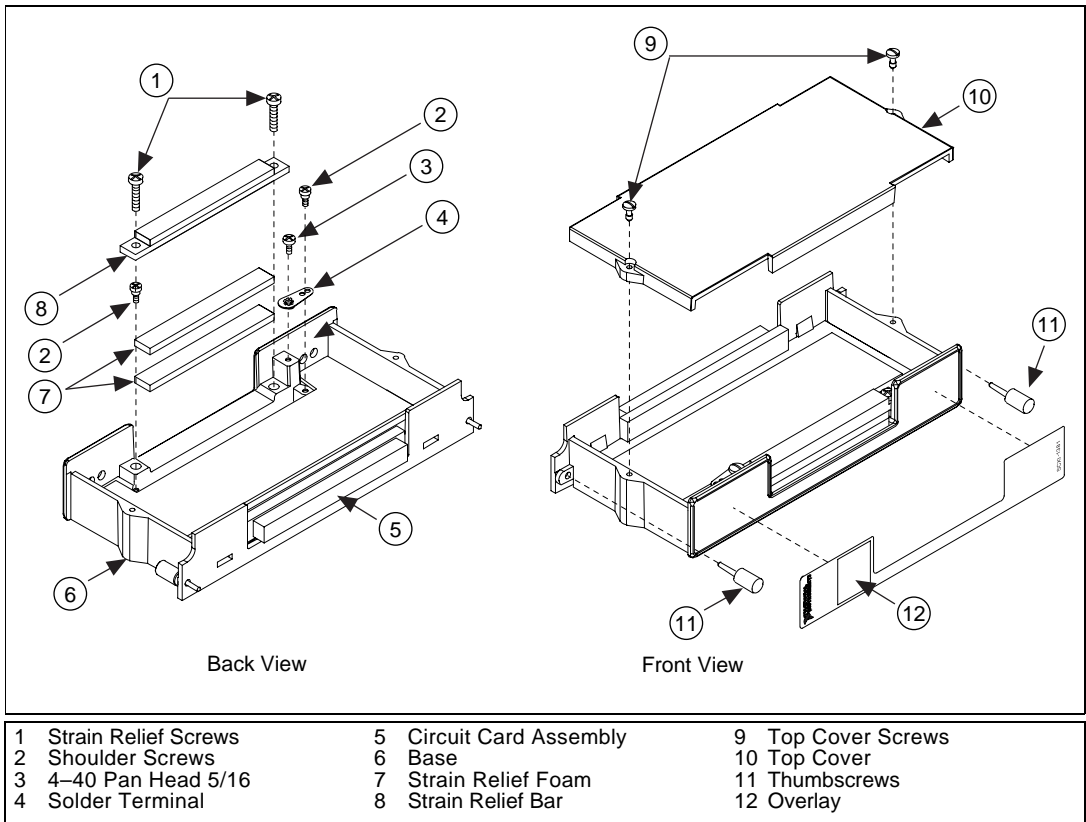


Figure 1. SCXI-1381K Parts Locator Diagram

Figure 2 displays detailed dimensions for circuit boards designed for SCXI terminal blocks. Use these diagrams as guides when designing custom circuit boards for your SCXI terminal block enclosures.

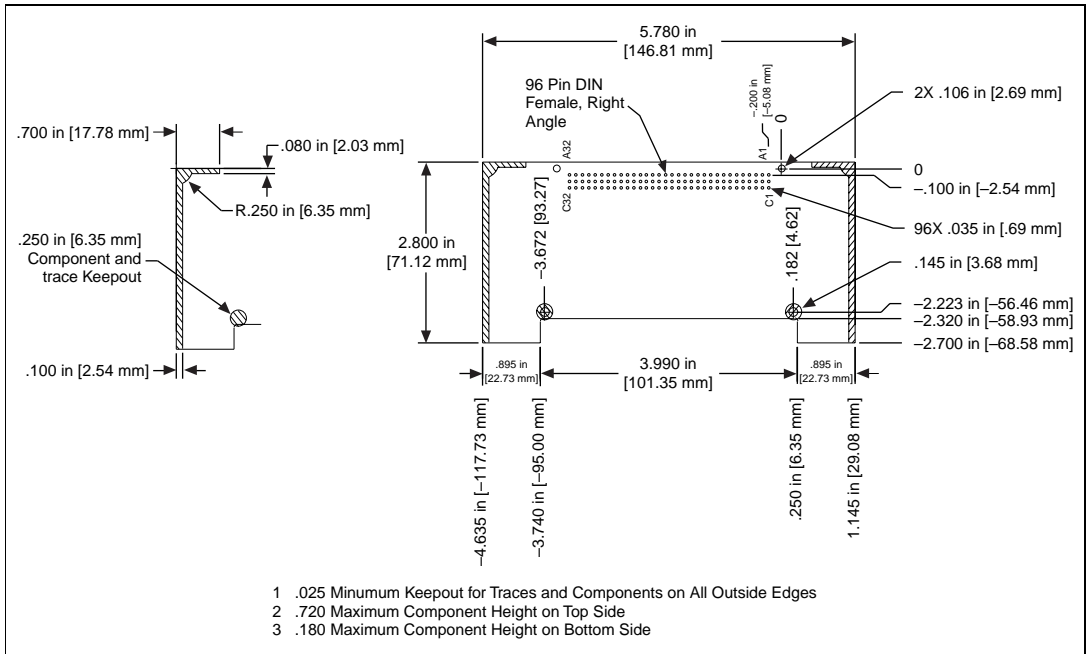


Figure 2. Custom Circuit Board Specifications

