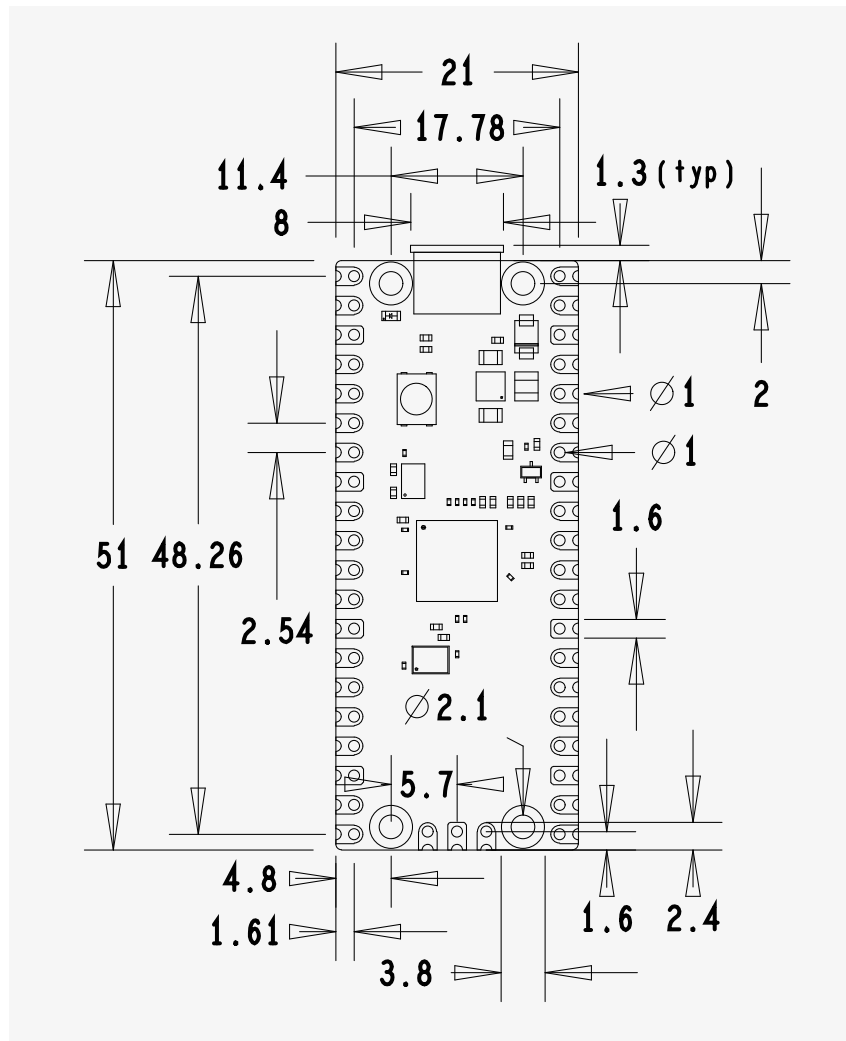


## Chapter 2. Mechanical Specification

The Raspberry Pi Pico is a single sided 51x21mm 1mm thick PCB with a micro-USB port overhanging the top edge and dual castellated/through-hole pins around the remaining edges. Pico is designed to be usable as a surface mount module as well as being in Dual Inline Package (DIP) type format, with the 40 main user pins on a 2.54mm (0.1") pitch grid with 1mm holes and hence compatible with veroboard and breadboard. Pico also has 4x 2.1mm (+/- 0.05mm) drilled mounting holes to provide for mechanical fixing, see [Figure 3](#).

*Figure 3. The dimensions of the Raspberry Pi Pico Rev3 board.*



## 2.1. Raspberry Pi Pico Pinout

The Pico pinout has been designed to directly bring out as much of the RP2040 GPIO and internal circuitry function as possible, while also providing a suitable number of ground pins to reduce EMI (Electro Magnetic Interference) and signal crosstalk. This is important in general but especially for RP2040 which is built on a modern 40nm silicon process and hence the digital IO edge rates are very fast.