Other Information

To obtain the most recent and complete documentation for this demonstration board, including:

- User's Guide
- Board Description
- Board Schematics
- Source Code
- Application Examples
- Links to Web Seminars

please refer to the Microchip web site: www.microchip.com

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PIC10(L)F32X Development Board Quick Start Guide

Overview

The PIC10(L)F32X Development Board is programmed at the factory with a demonstration program. The board does not need to be configured in any way in order to use the demonstration program. Once the board is powered up, the brightness of LED (D2) may be varied using the potentiometer (POT1). LED (D1) is powered as long as the PIC10F322 device is operating, and will thus vary with the supply voltage.

Board Setup

There is no setup for this demo board to operate.

Board Power-Up

Supply power to the board in one of the following ways:

- Connect a 2.3-5 V_{DC} supply using J4 (see Figure 1).
- Use the power supplied by the PICkit™ 3 or MPLAB™ ICD 3 programmers.

Demonstration Program

After applying power to the PIC10(L)F32X Development Board, LED (D1) will automatically turn on. Turn POT1 clockwise to increase the brightness of LED (D2). Press switch (SW1) to turn both LEDs D1 and D2 off, release switch (SW1) and LEDs D1 and D2 will turn on.

Board Layout

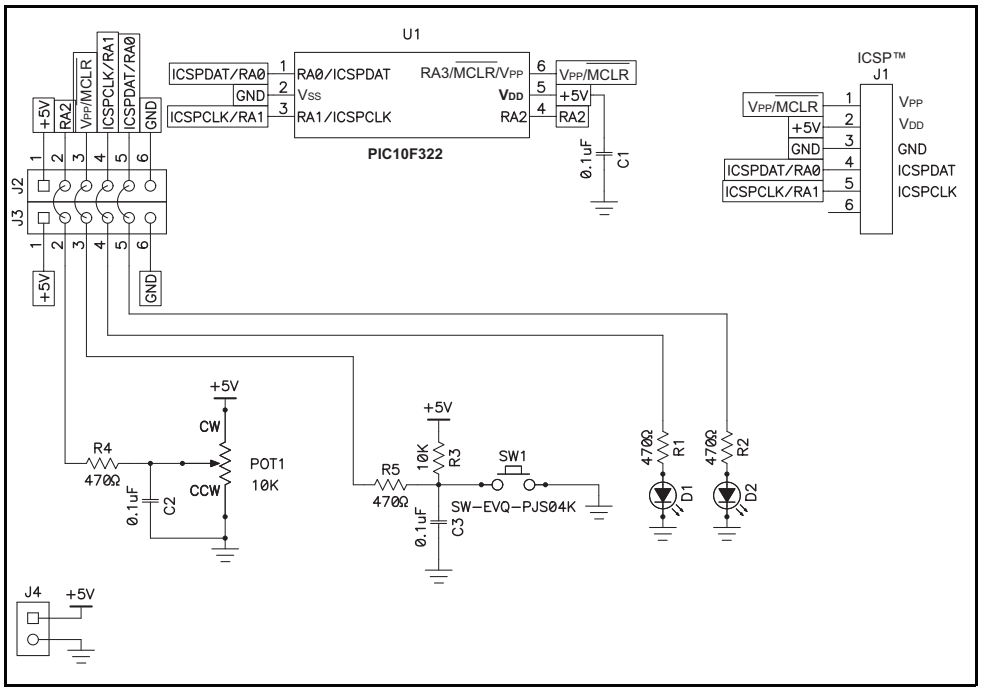
The PIC10(L)F32X Development Board is shown in Figure 1 and a schematic in Figure 2.

A PIC10F322 microcontroller is populated on the top center of the demo board under the identification label U1. The PIC10F322 has 4 available I/O pins that are initially connected to the four major components on the board. The initial connections connect to the following components:

- Switch 1 (SW 1) – 1 pin: $\overline{MCLR}$ (pin 6) of microcontroller
- Pot 1 (POT1) – 1 pin: RA2 (pin 4) of microcontroller
- LED (D1) – 1 pin: RA1 (pin 3) of microcontroller
- LED (D2) – 1 pin: RA0 (pin 1) of microcontroller

Should you choose to use the board to experiment on your own, the board allows the flexibility to do so. A prototyping area is provided, with ground (GND) and supply voltage (V_{DD}) connections on the left and right sides, to expand and experiment with the capabilities of the PIC10(L)F32X Development Board.

Figure 2: PIC10(L)F32X Development Board Schematic



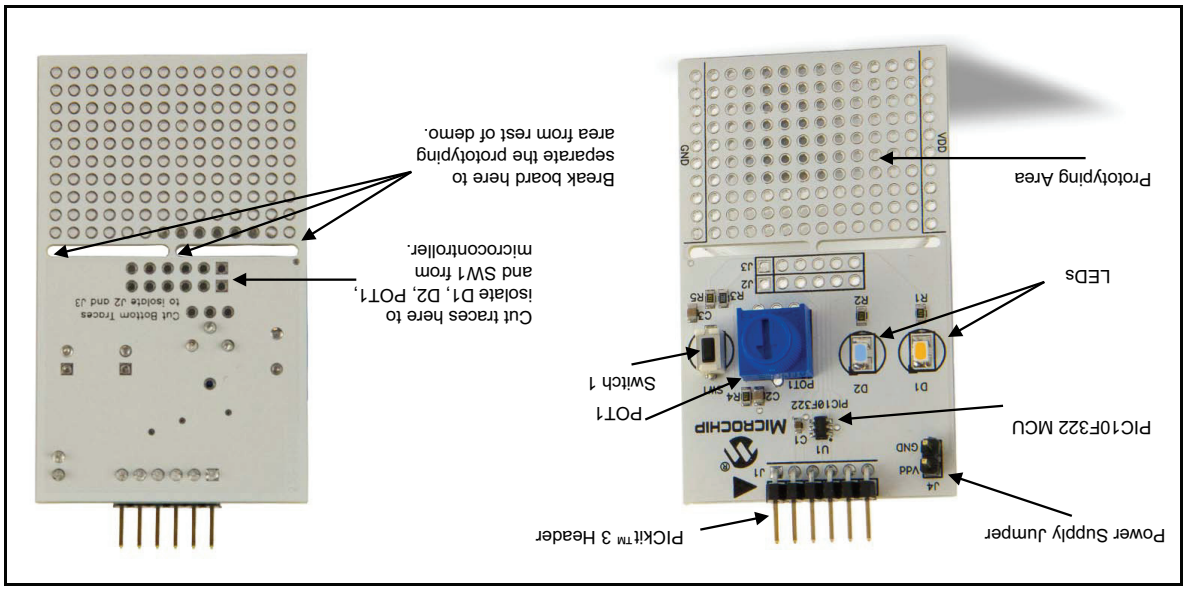


Figure 1: PIC10(L)F32X Development Board