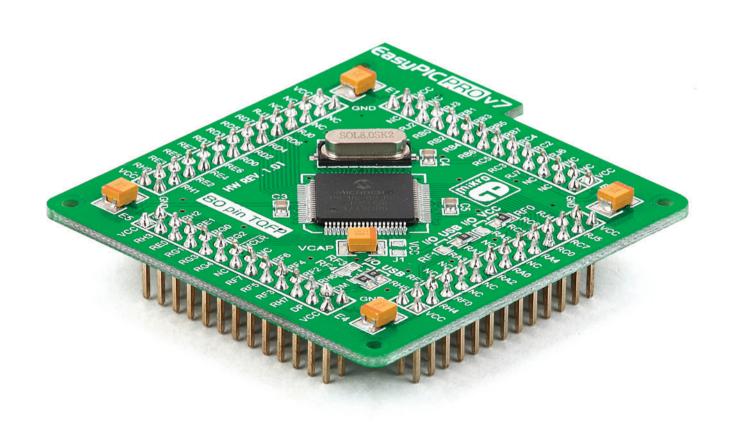
Standard 80-pin TQFP card with PIC18F87J50 MCU





EasyPIC PRO^{v7}

What's on Card

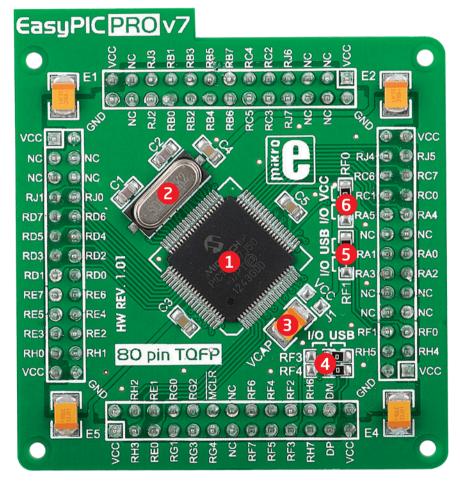
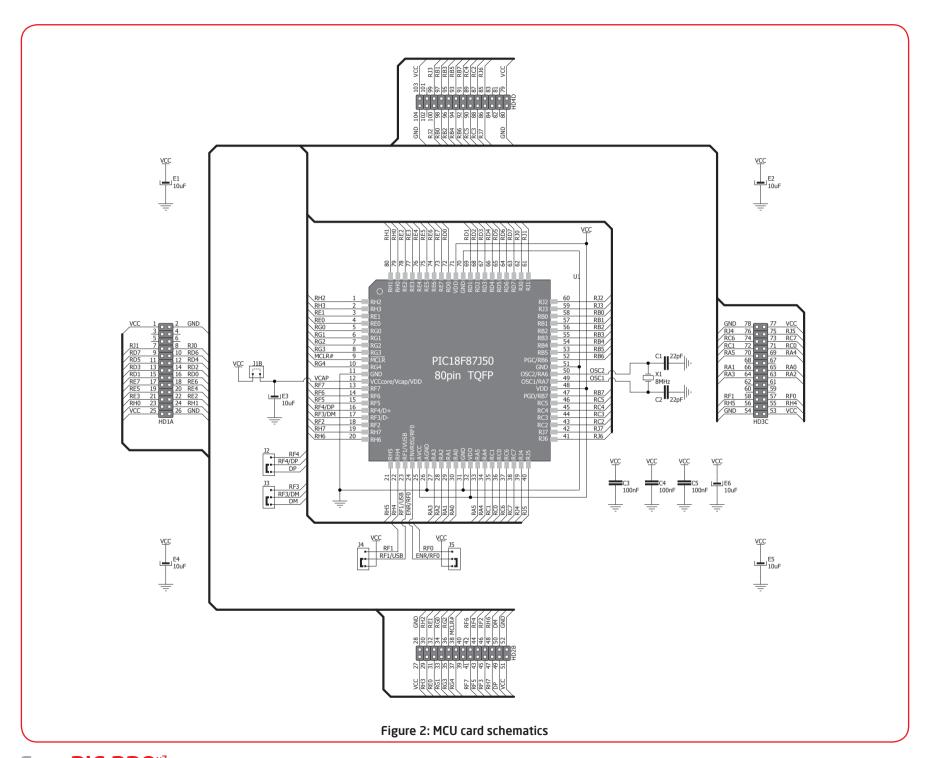


Figure 1: MCU card with PIC18F87J50

- PIC18F87J50 microcontroller. Featuring nanoWatt technology, it has up to 10 MIPS operation, 128K bytes of linear program memory, 3936 bytes of linear data memory, and lot of internal modules.
- 8MHz crystal oscillator. We carefully chose the most convenient crystal value that provides clock frequency which can be used directly, or with the PLL multipliers and dividers to create higher MCU clock value.
- VCAP jumper. Some PIC18FK and all PIC18FJ microcontrollers have cores that work on 1.8V-2.5V voltage range, and peripherals that work with 3.3V and 5V voltages. Internally, those microcontrollers have power regulators which adjust the core voltage levels. In order for those devices to have a stable operation of the core, manufacturer recommends that decoupling capacitive filters should be provided, and connected between specific microcontroller pins designated with VCAP and GND. This MCU card provides a VCAP jumper which is used for this purpose. Jumper is removed by default.
- **USB communication lines.** These two jumpers, when in USB position, connect **D+** and **D-** lines of the on-board USB connector with **RF3** and **RF4** microcontroller pins. **Jumpers are in USB position**.
- Vuse line jumper. For PIC18F8xJ5x devices, this jumper should be connected to VCC for enabling internal USB controller. For PIC18F87J50 microcontroller this jumper is in USB position.
- **ENVREG selection jumper.** PIC18FJ and PIC18FK microcontrollers are using internal voltage regulator which is enabled by placing this jumper in VCC position. **For PIC18F87J50 this jumper is in VCC position**.



Card dimensions

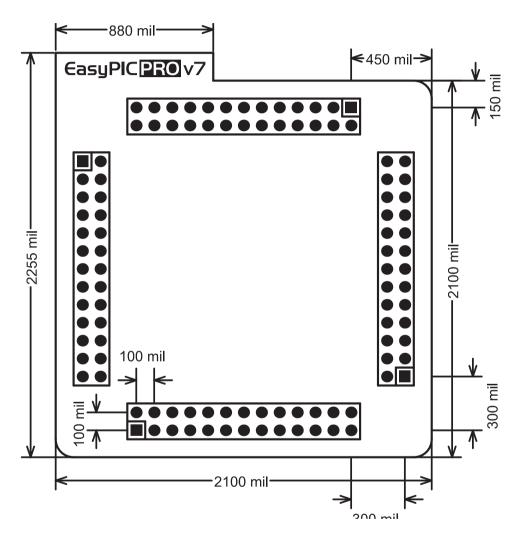


Figure 3: MCU card dimensions. Values are in mils.









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