

# PIC18F252 Development Module

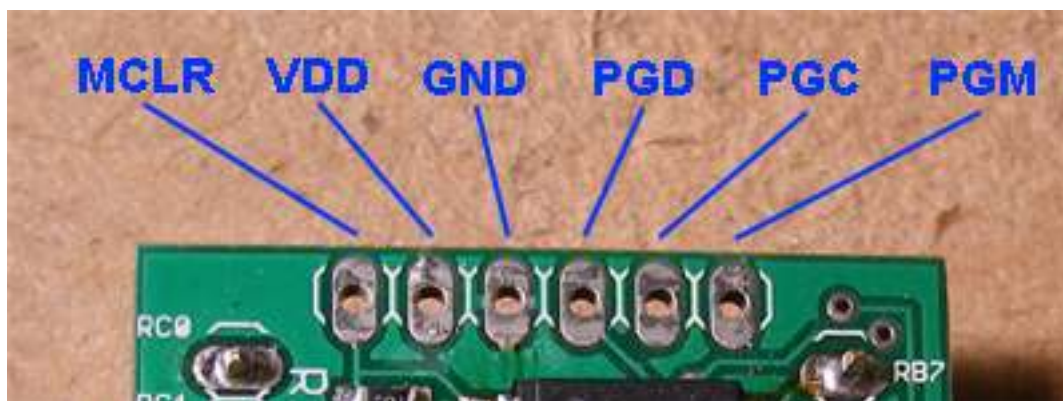
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Thank you for purchasing this quality product from RPC Electronics. This module is for speedy development around the Microchip PIC18F252 microprocessor. The module includes the on-board PIC18F252, 20 MHz resonator with 22pf decoupling capacitors, +5VDC voltage regulator and two 10uF filtering capacitors for the power supply.

The entire module has been designed around surface mount parts to easily fit onto a DIP pluggable form factor. Also included are dual Interface Plug (DIP) headers that allow the module to be plugged into a solderless breadboard or even plugged into a development prototype design.

All of the PIC18F252's pins have been broken out to these headers and are labeled accordingly. An ICSP (In-Circuit Serial Programming) circuit has also been built into the module for easy programming. This connector uses the industry standard pinout found on many popular PIC programmers. The ICSP pinout is shown in the figure below:



**NOTE:** In order for the ICSP to operate properly, the PIC pins RB5, RB6 and RB7 must be isolated from any other circuit. This can be either temporary during programming and then re-connected after programming is complete or leave these pins as “last needed” pins in a design.

The built-in 5VDC power supply is an easy way to provide a regulated and filtered power source to the development module. The INPUT voltage to the module should not exceed +12VDC. There is also a +5VDC output pin on the module to feed voltage to other +5VDC devices in your design. The on-board regulator can supply up to 1.0A peak current and up to 0.5A constant current. If your design will require more than this, please use an additional external regulator for your application.