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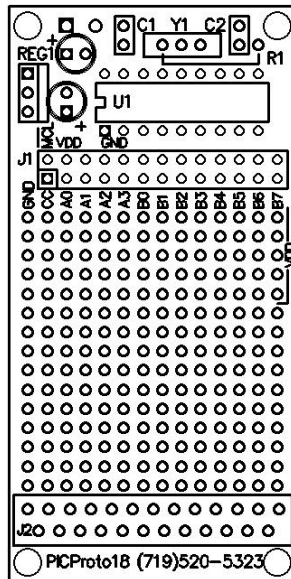
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PICProto18 Prototyping Board with **PICBus**TM

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Jameco Part Number 132644

- ❖ High quality double-sided board
- ❖ Solder mask both sides
- ❖ 300 plated-through holes
- ❖ 4 mounting holes
- ❖ Overall dimensions 1.5" X 3"



U1 - PIC16C52, 54, 56, 58, 554, 556, 558, 61, 620, 621, 622, 71, 710, 711, 715, 84, 16F83 or 84

Y1 - crystal or ceramic resonator

C1, 2 - crystal capacitors

C3 - input capacitor

C4 - bypass capacitor

R1 - RC oscillator resistor

REG1 - 5 volt regulator

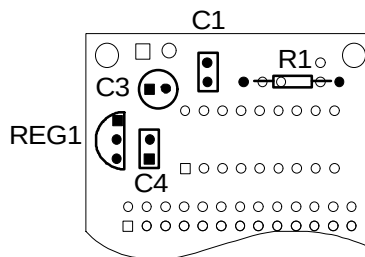
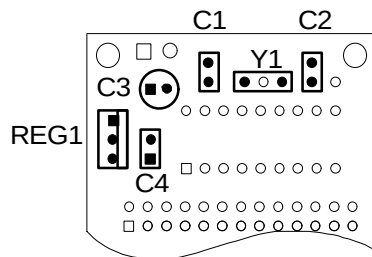
J1 - PICBus* I/O connector

J2 - DB9, 15, or 25 connector

Vdd - plus 5 volt bus

GND - ground buss

Parts Placement:



Crystal or Ceramic Resonator

Y1 = DC - 20MHZ
C1, 2 = 5 - 22pf

TO-220 Regulator
REG1 = 7805T

C3 = .1 - 10 uf
C4 = .01 - .1uf

RC Oscillator
 $5k \leq R1 \leq 100K$
 $C1 \geq 20pf$
C2 = none

TO-92 Regulator
REG1 = 78L05
C3 = .1 - 10uf
C4 = .01 - .1uf

PICBus*:

PICBus* is a standardized bus for use with any 18- or 28-pin PICmicro.

RTCC	☐	MCLR
RA0	☐	VDD
RA1	☐	KEY
RA2	☐	GND
RA3	☐	GND
RB0	☐	RC7
RB1	☐	RC6
RB2	☐	RC5
RB3	☐	RC4
RB4	☐	RC3
RB5	☐	RC2
RB6	☐	RC1
RB7	☐	RC0

Notes:

KEY should be cut off on 26-pin header and plugged on-26 pin socket.

RC0-7 are no-connects for 18-pin PICmicros.

*PICBus is a trademark of microEngineering Labs, Inc.

Assembly Notes:

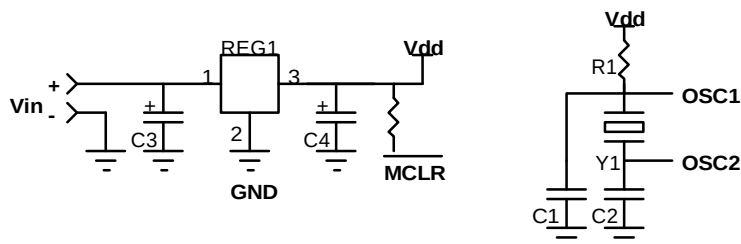
Pin 1 of U1 is marked with a square pad.

Note polarity of Vin, REG1 and any polarized capacitors.

Don't forget to pull-up Master Clear to Vdd.

All unused inputs should be tied to Vdd or ground.

Schematic:



Sources:

PICmicro documentation is available from:
Microchip Technology Inc.

www.microchip.com

microEngineering Labs, Inc.