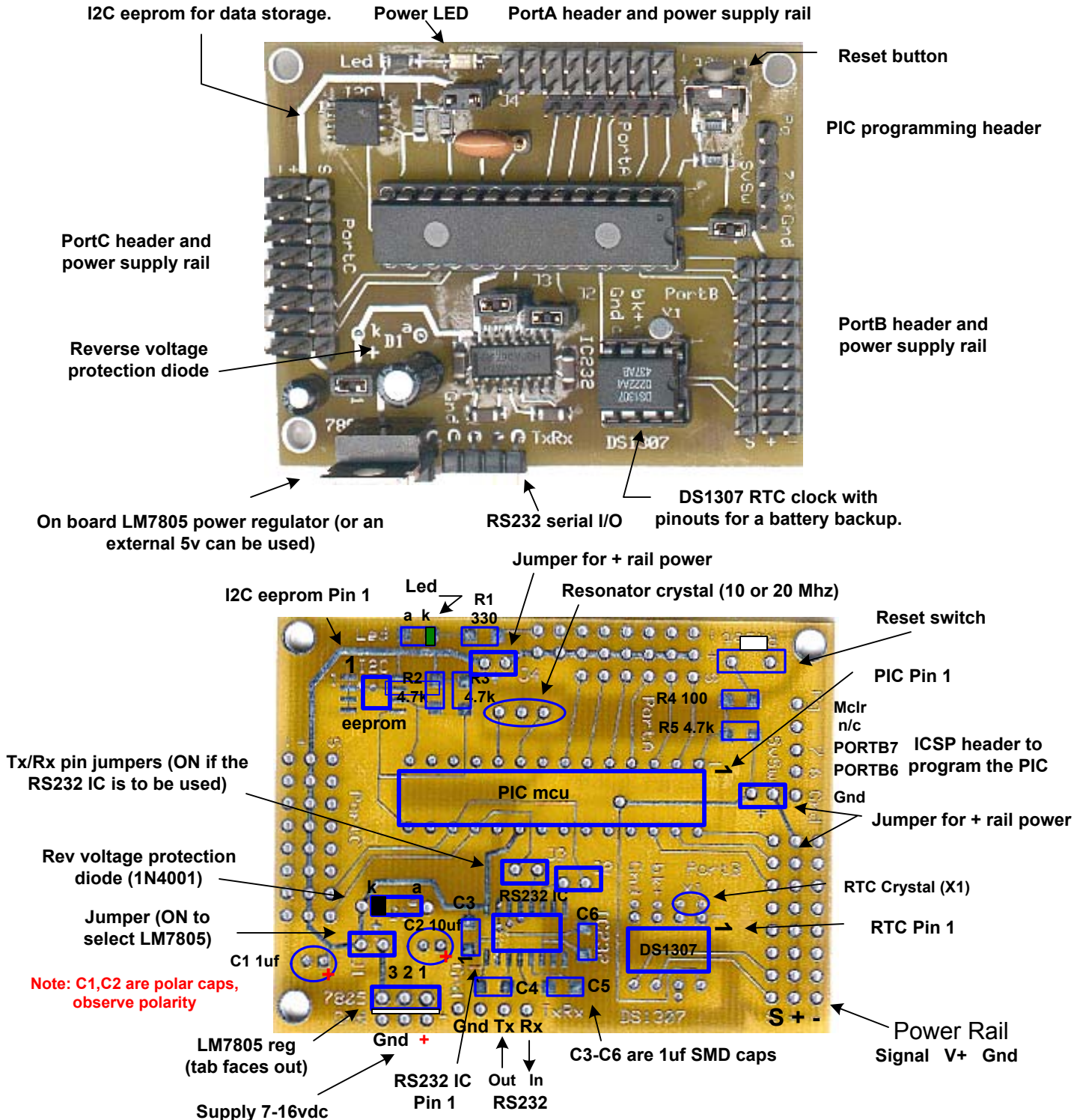


BOTB2 Circuit Board

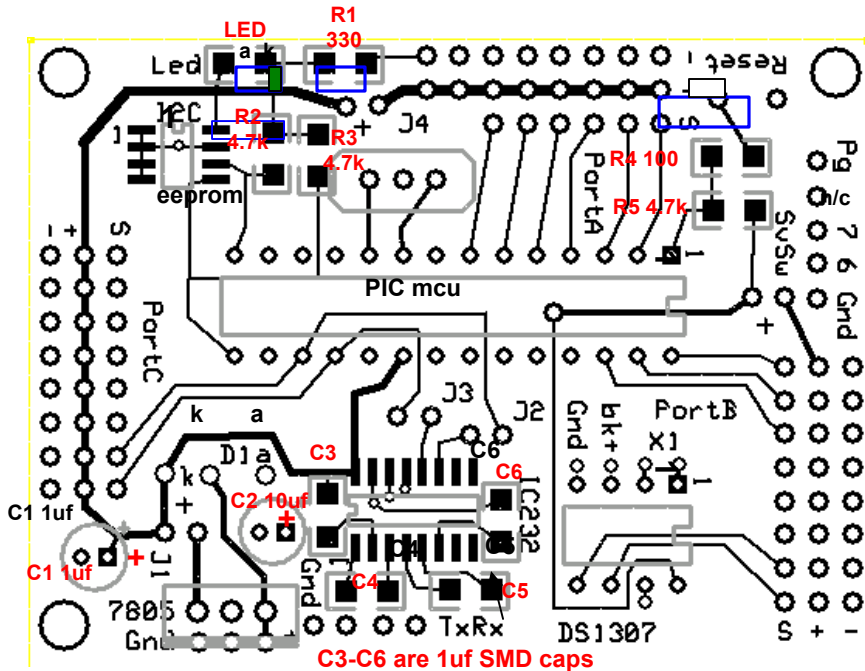
PIC 28pin Dip Development board designed for robotic applications

The board can work with most 28 pin PIC microcontrollers, such as the 16F786, 18F252, 18F2620. The BOTB2 board was designed for a robotics project that required controlling servos and a variety of sensors. Headers are provided for power as well as all unused PIC pins. It has provisions for an RTC (DS1307) clock and crystal, a Max232 SOIC, an I2C 24CL256 eeprom, on-board power regulator, power LED, a programming header and several jumpers to enable/disable on-board or external power for devices.

The pcb layout provides easy access to all I/O pins as well as a power supply. Servo cables can be directly connected to the headers. Power rail for devices on Portb and PortA are jumper selectable for either the on-board supply or an external supply (for devices which require more power than the on board LM7805 can handle)



PCB Layout



Parts

R1	330
R4	100
R2,R3,R5	4.7k
C1	1uf radial
C2	10uf radial
C3-C6	1uf SMD
1N4001	diode
LM7805	5v regulator
PIC 16F/18Fxxx	mcu
Max232 IC	RS232 IC
24LC256	I2C eeprom
DS1307	RTC IC
X1	32.768kHz RTX xtal Resonator for PIC 10-20MHz
	Reset switch (normally open)
	5 jumpers
	Printed circuit board

BOTB2 Board
(c)COMPsys Workbench 2003

