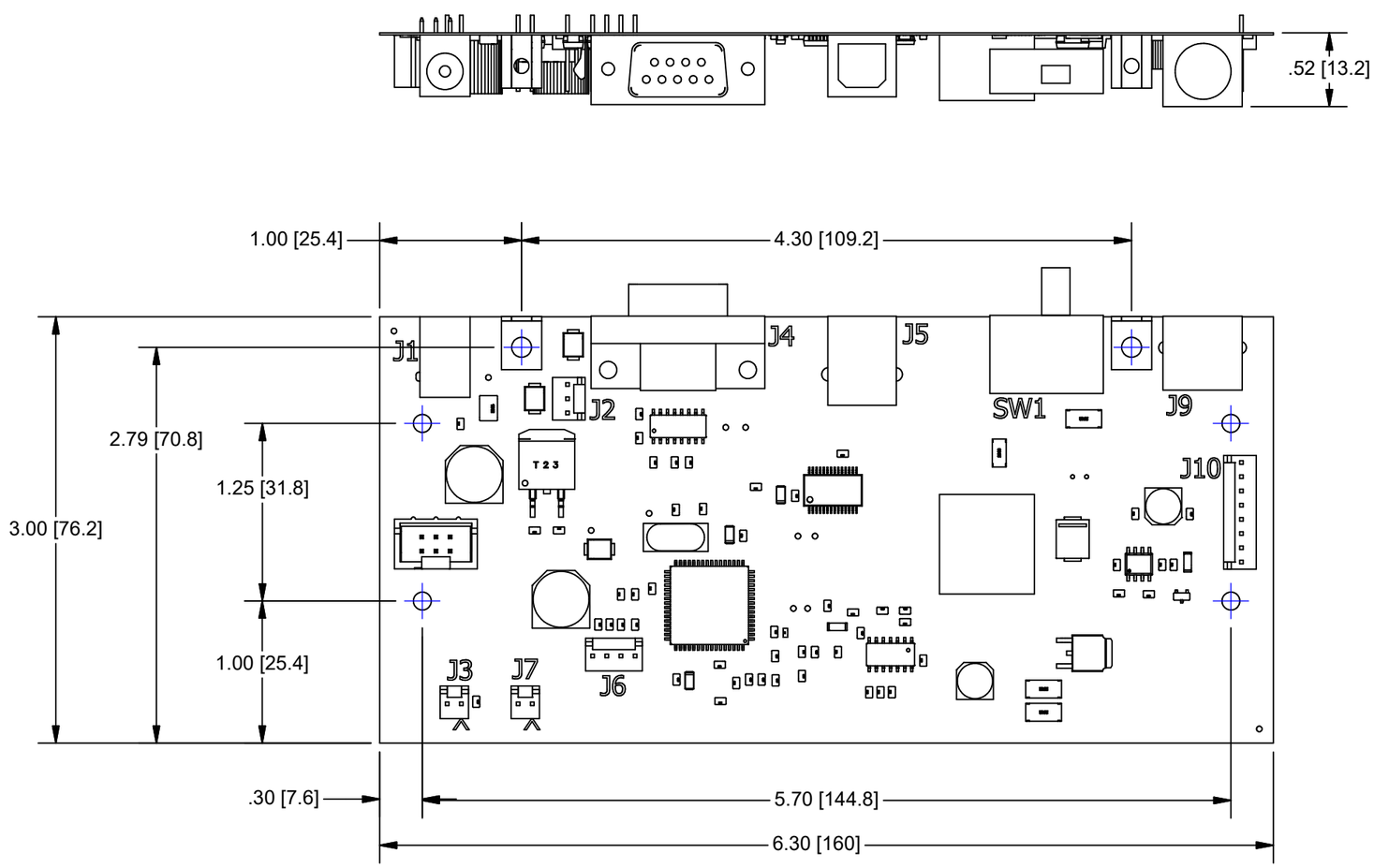

POWER CONNECTOR
12VDC, CENTER- POSITIVE, 2.1mmx5.5mm barrel

LOAD CURRENT @ 12vDC ROOM TEMPERATURE
0%= 60.2mA
50%= 190mA
100%= 359mA

POWER LED
ON= 5v board supply is present

HIGH/ LOW CURRENT LED
ON= 700mA maximum LED current,
OFF= 350mA maximum LED current

RS232 INTERFACE
Connection to PC made via standard RS232 Cable
3400bps, 8 bit, no parity, one stop bit

USB INTERFACE
Connection to PC made via standard USB cable to USB port.
Requires installation of FTDI virtual COM port (VCP) driver on PC

ROTARY ENCODER
Manual LED control- .1% resolution

LED CONNECTOR
6 pin MINI-DIN
Constant- current sink
Pin 1= Anode
Pin 2= Cathode
To enable HIGH/LOW current switch:
Pins 3->5 and Pins 4->6
must be tied together on LED harness

J1= 12 vDC Input

J2 = POWER IN
PIN 1 SW POWER + (A)
PIN 2 GROUND - (C)
PIN 3 12Vdc
CONNECTOR: AMP #640441-3

J3 = POWER ON LED
PIN 1 + (A)
PIN 2 - (C)
CONNECTOR: MOLEX #70066-0001

J4 = RS232

J5= USB

J6= ROTARY ENCODER
PIN 1 -SW_A (IN)
PIN 2 -SW_B (IN)
PIN 3 COM
PIN 4 COM
CONNECTOR: AMP #640441-4

J7=LO / HI LED
PIN 1 + (A)
PIN 2 - (C)
CONNECTOR: MOLEX #70066-0001

J9= LED OUTPUT VIA 6 PIN MINI-DIN CONNECTOR

J10= LED OUTPUT
PIN 1: 12vDC out, LED "+"
PIN 2: LED CURRENT SINK "-"
PIN 3: LED CURRENT SINK "-"
PIN 4: NC
PIN 5: .35A/.7A HARDWARE CURRENT LIMIT
PIN 6: GND
PIN 7: HIGH/ LOW CURRENT LED INDICATOR (J7)
PIN 8: HIGH/LOW CURRENT SIGNAL TO MICROCONTROLLER
CONNECTOR: TYCO # 640456-8

OUTLINE

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES [MM] AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES	**PROPRIETARY AND CONFIDENTIAL** THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF NAVITAR. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF NAVITAR IS PROHIBITED.	NAVITAR ROCHESTER, NEW YORK		
SCALE: 1:1				
WEIGHT: 0.25 lbmass	0.0 inch 1.0 / 0.0 mm 25.0	LED CONTROLLER, BOARD LEVEL KIT		
DR BY: C Boggio				
CH BY: R. PODLENA				
PROJECT #: E2828	DO NOT SCALE DRAWING	SIZE B	1-40048 SHEET 2 OF 2	REV A
DATE DR: 7/6/2011				