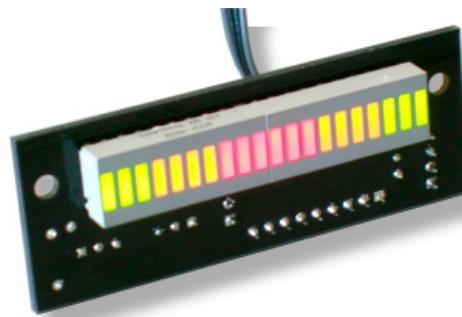


The LBG10 LED bar graph display provides a 0-5V meter display through the NITRO-SLG, NITRO or RXC cards (Note: NITRO & RXC cards require the Plasma-Lite V2 module)



Features LBG10:

- 20 LED segment meter display
- Reference voltage trim
- Brightness control
- BAR or DOT mode selection
- 0 to 5VDC input
- Small PCB footprint 1" x 2.7"
- Compatible with Dx10-8BIT, NITRO & RXC cards

Features LBG10-DG:

- 20 LED segment meter display
- Brightness control with Day / Night setting. (LGB10-DG Only)
- SPI digital signal inputs
- Small PCB footprint 1" x 2.7"
- Compatible with Nitro-SLG

Connecting the LBG10 Card:

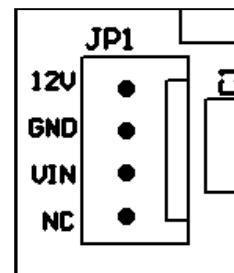
LBG10: Connect JP1 to any DAC output on the NITRO or RC cards using a maximum cable length of 36" (22-24 AWG stranded wire).

12V: VCC pin. The DAC card must supply the required +12VDC.

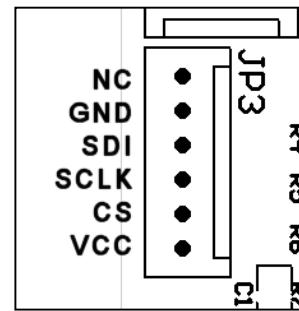
GND: Ground pin.

VIN: 0-5VDC input pin.

NC: No contact. Leave this pin unconnected.



LBG10-DG: Connect JP3 to any SPI output on the Nitro-SLG card using a maximum cable length of 36" (22-24 AWG stranded wire).



VCC: VCC pin. The Nitro-SLG card must supply the required +5VDC.
GND: Ground pin.

CS: Chip Select line. Set CS Line to LOW in device manager.

SCLK: SPI clock line.

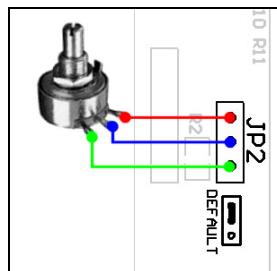
SDI: SPI Data In line.

NC: No contact. Leave this pin unconnected.

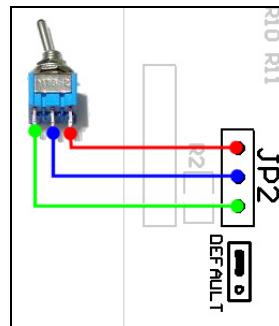
Brightness Control:

LBG10: Adjust the *BRIGHTNESS* trimpot to the desired level. Note that the trimpot will only provide partial control (i.e. the LEDs cannot be turned off). This is by design.

LBG10-DG: Connect any suitable pot over 10k Ohms to JP2 and adjust to desired brightness level.

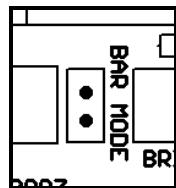


Alternately you can connect a switch to toggle between Day and Night brightness levels.

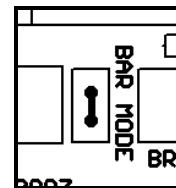


Reference Trim (LBG10 Version Only):

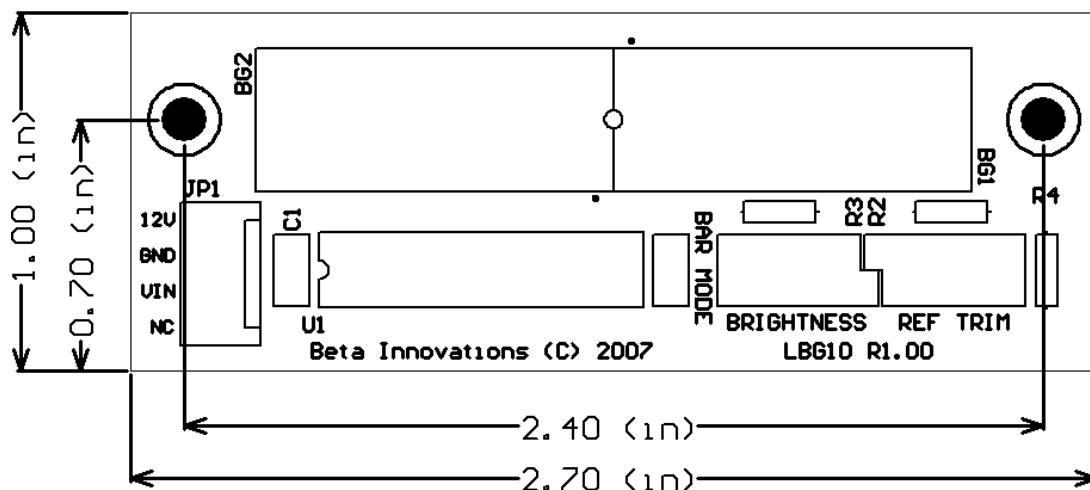
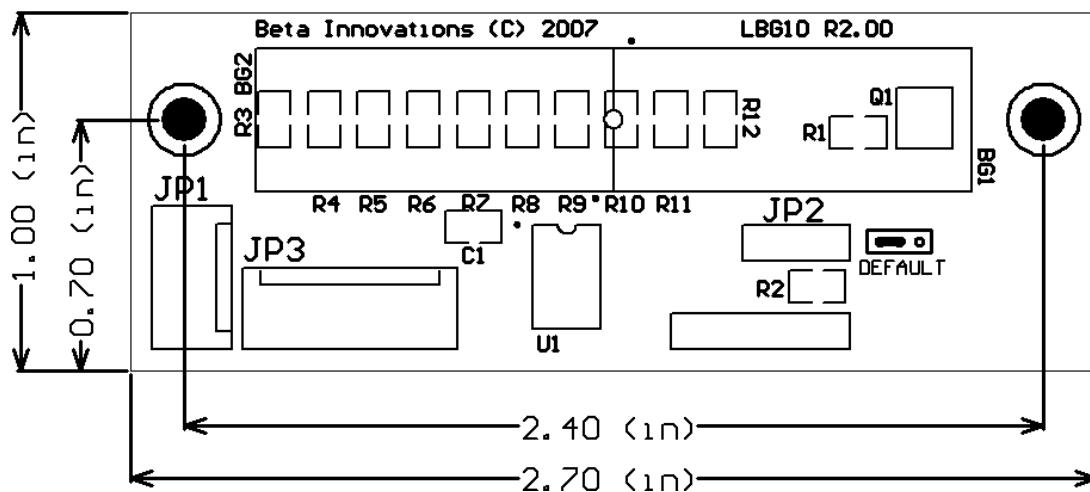
Connect the LBG10 to a DAC output. Using the USBSPIDAC.exe utility, set the slider for the DAC output to maximum (i.e. 5V). Adjust the *REF TRIM* pot so that all the LEDs are turned ON.

BAR/DOT Mode (LBG10 Version Only):

DOT mode (remove jumper)



BAR mode (insert jumper)

Mechanical Specifications:**LBG10 R1.00****LBG10-DG R2.00**

Visit www.betainnovations.com for the availability of expansion modules and accessories.