

## Product Overview

The TEGBlock is a low power converter used for energy harvesting applications where extremely low voltages are present. The TEGBlock line of drivers is an ideal choice for powering microprocessors, sensors, or low power wireless devices. We offer 5V and 3.3V regulated models, but can supply other voltage options. Please contact TEGPro for more information.

The standard offering are fully potted in a convenient form factor (2"x1.17"x0.375"), and are provided with 6" 18 AWG colored leads (red Vin+, black Vin-, orange Vout+, and green Vout-).



TEGBlock

## Features

- DC input voltages as low as 40mV and as high as 400mV
- 3.3V and 5V Output Voltages
- Form factor (2"x1.17"x0.375")
- The LV1xDC-B has permanently attached wires
- Open circuit protection and Short Circuit Protection

## Typical Application

- Wireless Sensors
- Microprocessors
- Low-Power Bluetooth
- Energy harvesting
- Wireless Zigbee
- And much more

## Specifications

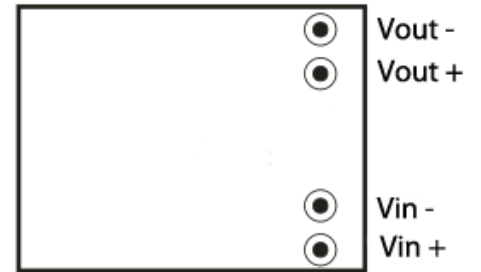
Input Voltage .....	40mV <sub>DC</sub>
Output Voltage .....	3.3V <sub>DC</sub> or 5V <sub>DC</sub>
Maximum Output Current .....	4.2mA
Operating Temperature .....	-40-+85°C
Storage Temperature .....	-40-+125°C

## Absolute Maximum Ratings

Input Voltage.....	400mV <sub>DC</sub>
Output Voltage.....	3.3V <sub>DC</sub> or 5V <sub>DC</sub>
Output Power.....	20mW

## Typical Characteristics

Efficiency.....	80%
Input Voltage Minimum.....	40mV <sub>DC</sub>



## Output Characteristics

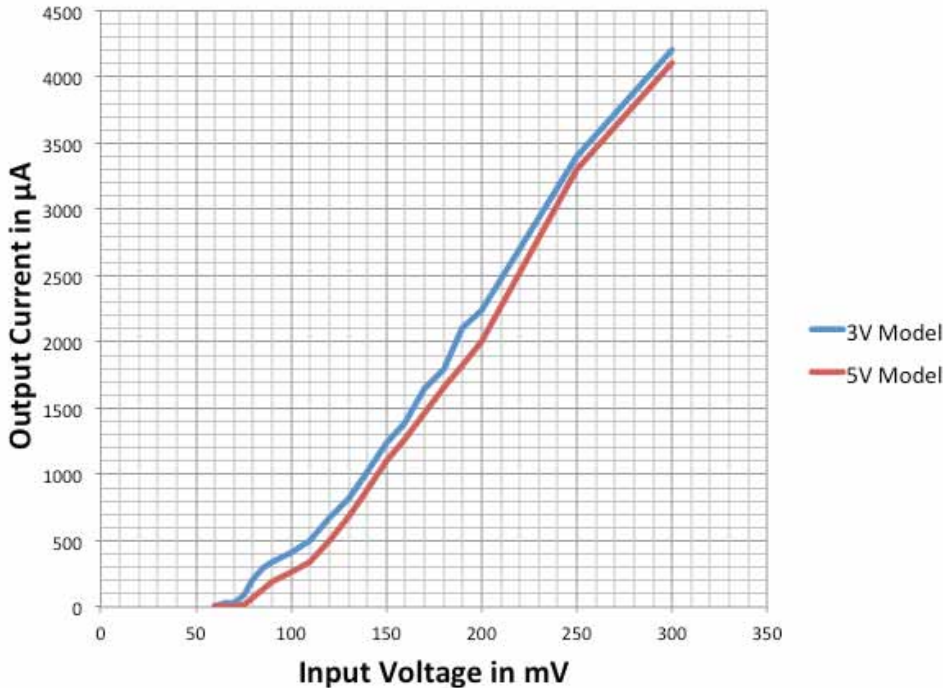
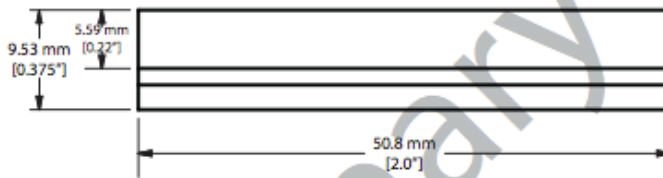
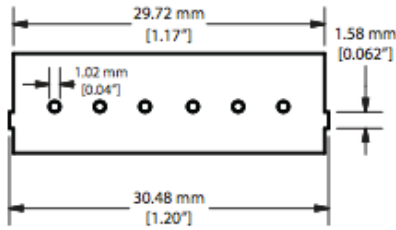


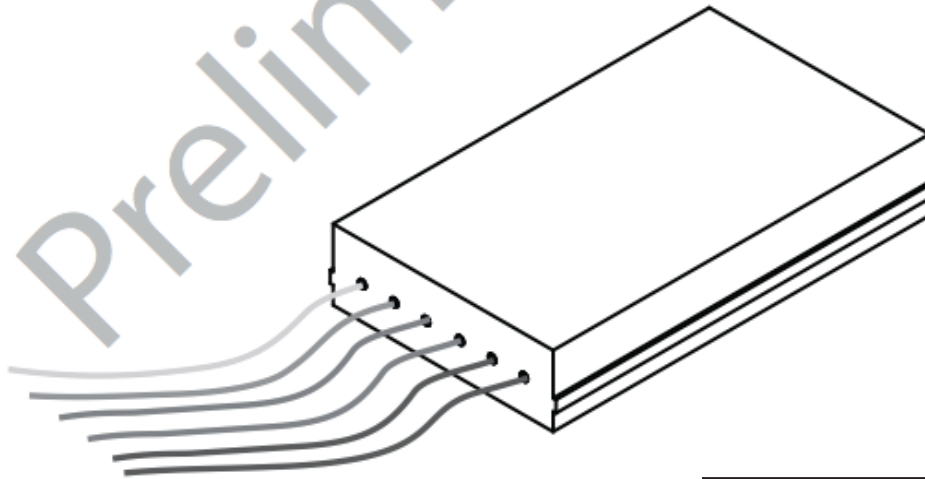
Figure 1.  
Bottom View Pinout

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Specifications subject to change without notice. Nov, 2013 - Rev 1.0

## Physical Dimensions



A009  
6" - 18AWG Colored Leads



Part Numbers	
LVI-B-18-L	TEGBlock 1.8V Wired
LVI-B-22-L	TEGBlock 2.2V Wired
LVI-B-30-L	TEGBlock 3.0V Wired
LVI-B-33-L	TEGBlock 3.3V Wired
LVI-B-50-L	TEGBlock 5.0V Wired