TEGPuck
LVIxDC-P/L

Product Overview

TEGPuck

The TEGPuck is a low power converter used for energy harvesting applications where extremely low voltages are present. The TEGPuck 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 an extremely small form factor (0.83"x0.83"x0.43"), and are provided with a simple 7 pin SIP connection for through-hole PCB mounting (LVIxDC-P) or (LVIxDC-L) 6" 24 AWG colored leads (red Vin+, black Vin-, orange Vout+, and green Vout-).

Features

- DC input voltages as low as 40mV and as high as 400mV
- 3V and 5V Output Voltages
- Extremely small form factor (0.83"x0.83"x0.43")
- The LVIxDC-P has a simple 7-pin SIP connection for through-hole PCB mounting or use with an optional wiring harness
- The LVIxDC-L 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

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Specifications

Input Voltage . . . . . 40mV$_{DC}$
Output Voltage . . . . . 3V $_{DC}$ or 5V$_{DC}$
Maximum Output Current 4.2mA
Operating Temperature . . . . . -40-+85°C
Storage Temperature . . . . . -40-+125°C

Absolute Maximum Ratings

Input Voltage. . . . . 400mV$_{DC}$
Output Voltage. . . . . 3V$_{DC}$or 5V$_{DC}$
Output Power. 20mW

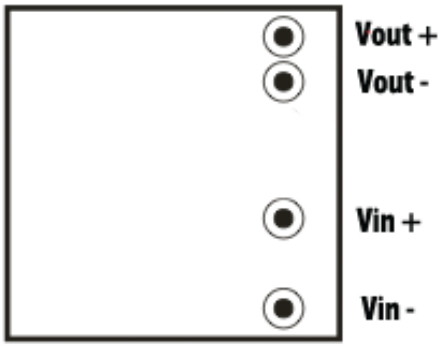
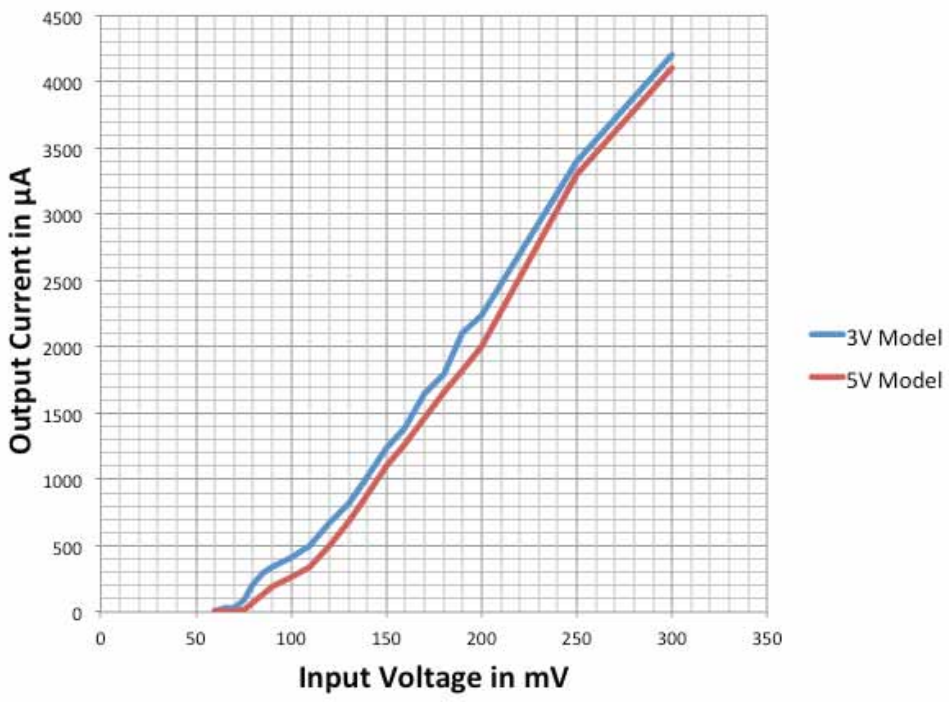


Figure 1.
Bottom View Pinout

Typical Characteristics

Efficiency. 80%
Input Voltage Minimum. . . . . 40mV$_{DC}$

Output Characteristics



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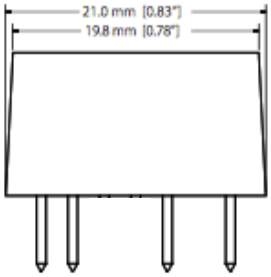
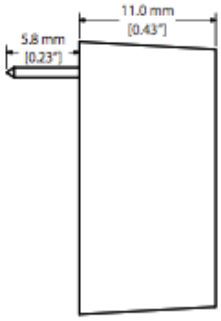
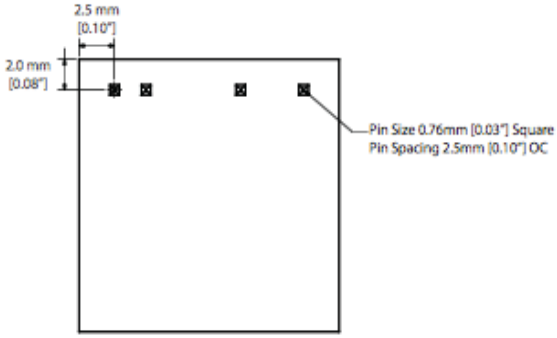
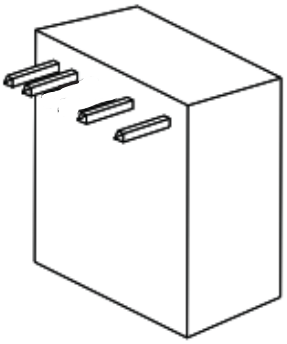
Physical Dimensions

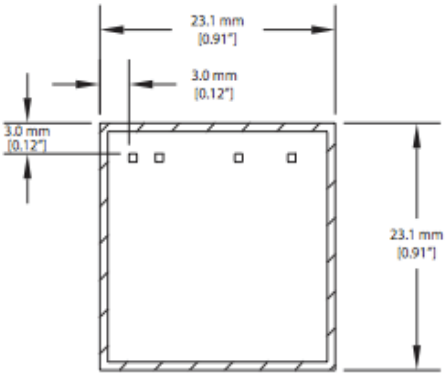




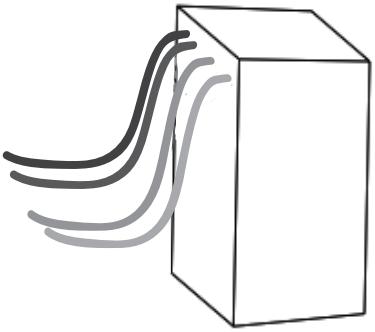


Recommended clearance envelope





6" - 24AWG Colored Leads



Part Numbers	
LVI-P-18-P	TEGPuck 5.0V Pinned
LVI-P-22-P	TEGPuck 2.2V Pinned
LVI-P-30-P	TEGPuck 1.8V Pinned
LVI-P-33-P	TEGPuck 3.3V Pinned
LVI-P-50-P	TEGPuck 3.0V Pinned

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