

Preliminary Product Brief *

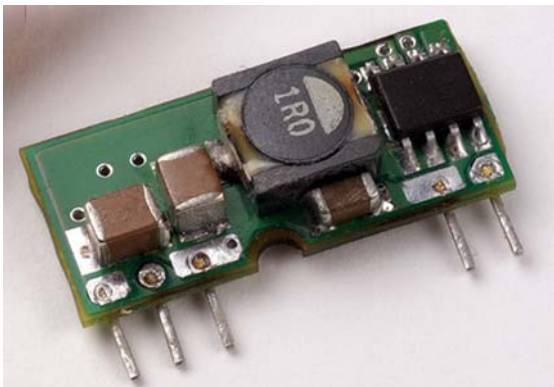
September 13, 2002

For Discussion with Tyco Electronics Customers Only – Tyco Electronics Proprietary



Austin MicroLynx Non-Isolated SIP series

Output current 5A, 3.0Vdc-5.5Vdc input voltage range,
Programmable Output voltage from 0.81Vdc to 3.63Vdc



(approval pending)

The Austin MicroLynx SIP (single-in-line) power modules are non-isolated dc-dc converters that can deliver 5A of output current with full load efficiency of 94% at 3.3V output. These modules provide precisely regulated output voltages ranging from 0.81Vdc to 3.63Vdc, programmable via an external resistor. The open frame construction and small footprint enables designers to develop cost- and space-efficient solutions. Standard features include remote On/Off, output voltage adjustment, and overcurrent protection. The Austin MicroLynx is also available in SMT versions (featured in a separate product brief).

Applications

- Workstations, Servers, Desktop computers
- Distributed Power Architectures
- Telecommunications equipment
- Latest generation ICs (DSP, FPGA, ASIC) and Microprocessor-powered applications
- LANs/ WANs
- Data Processing Equipment
- Intermediate bus voltage applications

I) This product is intended for integration into end-use equipment. All the required procedures for CE marking of end-use equipment should be followed.
II) CSA is a registered trademark of Canadian Standards Association.
III) UL is a registered trademark of Underwriters Laboratories, Inc.
IV) VDE is a trademark of Verband Deutscher Elektrotechniker e.V.

- **Delivers 5A of output Current**
- **High Efficiency: 94% at 3.3V full load (Vin = 5.0V)**
- **Small size and low profile: 22.92 mm x 10.16 mm x 5.33 mm (0.90 in x 0.40 in x 0.210 in)**
- **High reliability: Estimated MTBF >10M hours at 25°C**
- **Cost-efficient open frame design**
- **Single-in-line (SIP) package**

Specifications

- Tightly regulated output voltage, typical $\pm 1\%$
- Programmable output voltage via external resistor from 0.81Vdc to 3.63Vdc
- Load regulation $\pm 0.2\%$
- Line regulation $\pm 0.1\%$
- Ripple and noise (5Hz to 20MHz bandwidth)
 - RMS 20mV_{rms}
 - Peak to peak $30\text{mV}_{\text{pk-pk}}$
- Operating temperature range: -40°C to $+85^{\circ}\text{C}$
- Remote On/Off

Protection

- Auto-reset output overcurrent protection (non-latching)

Austin MicroLynx Non-Isolated SIP series

Non Isolated DC/DC Converters

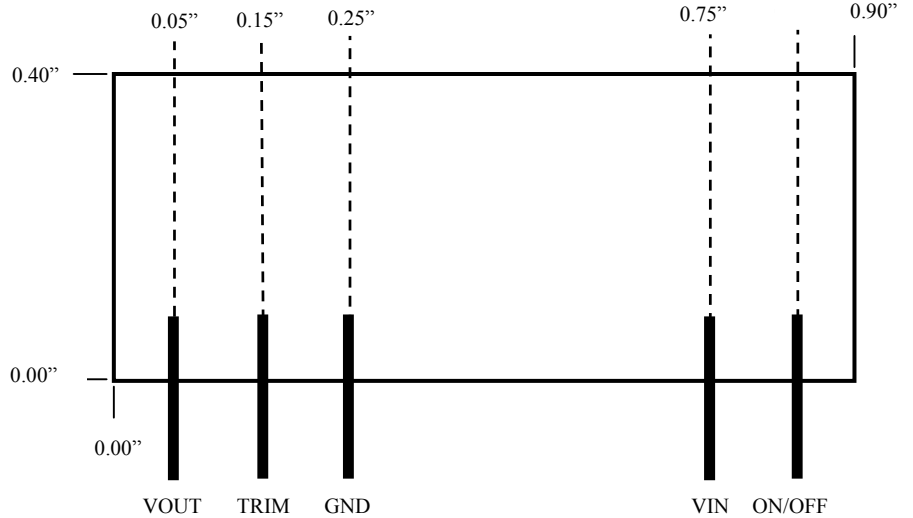
Outline Drawing and Pin-out

Physical Dimensions and design

SIP package with external dimensions of
22.90 mm x 10.16 mm x 5.33 mm
(0.90" x 0.40" x 0.210")

Weight: TBD

The Austin MicroLynx SIP series has a robust open-frame construction able to withstand industry standard through-hole handling, soldering and cleaning processes.



Pin diameter = 0.51 mm (0.02")
Module thickness is 0.210" ±0.012"

Ordering Information

Please contact your Tyco Electronics sales representative for pricing, availability and optional features.

Product codes	Input Voltage	Output Voltage	Output Current	Efficiency 3.3V @ 5A	Connector Type	Packaging	Comcodes
AXH005A0X	3.0V – 5.5Vdc	0.81V – 3.63Vdc	5A	94.0 %	Through Hole SIP	Box / Tray	108979675



World Wide Headquarters

Tyco Electronics Power Systems, Inc.
3000 Skyline Drive, Mesquite, TX 75149, USA
Tel: +1-800-526-7819, Fax: +1-888-315-5182
(Outside U.S.A.: **+1-972-284-2626**, Fax: +1-972-284-2900)
e-mail: techsupport1@tycoelectronics.com

www.power.tycoelectronics.com

Europe, Middle-East and Africa Headquarters

Tyco Electronics (UK) Ltd
Tel: +44 (0) 1344 469 300, Fax: +44 (0) 1344 469 301

Central America-Latin America Headquarters

Tyco Electronics Power Systems
Tel: +56 2 209-8211, Fax: +56 2 223-1477

Asia-Pacific Headquarters

Tyco Electronics Singapore Pte Ltd
Tel: +65 6416 4283, Fax: +65 6416 4299

* This preliminary product brief is only for discussion with customers to determine customer interest and requirements. Tyco Electronics makes no commitment to sample or manufacture for sale this product. Tyco Electronics reserves the right to make changes to the product(s) or information contained herein without notice and makes no representation with respect to the accuracy of the information herein. No liability is assumed as a result of their use or application. No rights under any patent accompany the sale of any such product(s) or information.