

Preliminary Product Brief *

November 4, 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 0.75Vdc 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 0.75Vdc 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

- Delivers 5A of output Current
- High Efficiency: 94% at 3.3V full load ($V_{in} = 5.0V$)
- Small size and low profile:
22.9 mm x 10.0 mm x 5.41mm
(0.90 in x 0.40 in x 0.213 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 0.75Vdc 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 $30mV_{pk-pk}$
- Operating temperature range: -40°C to +85°C
- Remote On/Off

Protection

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

I) CSA is a registered trademark of Canadian Standards Association.

II) UL is a registered trademark of Underwriters Laboratories, Inc.

III) VDE is a trademark of Verband Deutscher Elektrotechniker e.V.

Austin MicroLynx Non-Isolated SIP series

Non Isolated DC/DC Converters

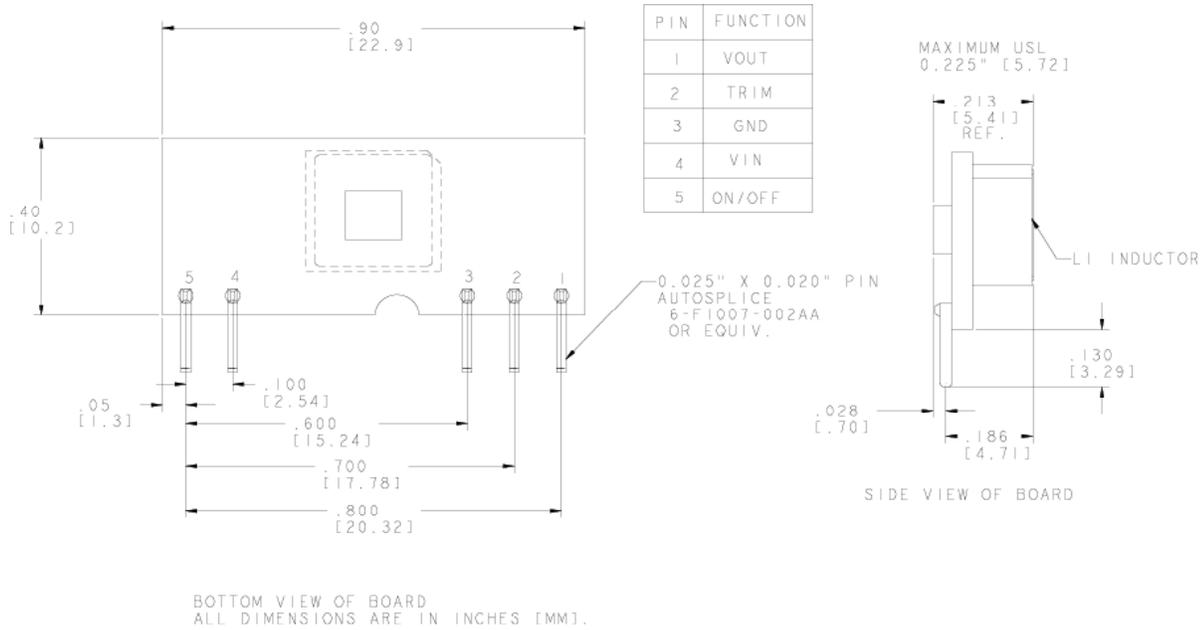
Outline Drawing and Pin-out

Physical Dimensions and design

SIP package with external dimensions of 22.9 mm x 10.2 mm x 5.41 mm (0.90" x 0.40" x 0.213")

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.



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	0.75V – 3.63Vdc	5A	94.0 %	Through Hole SIP	Box / Tray	108979675



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