RoHS Compliant



Applications

- Distributed power architectures
- Intermediate bus voltage applications
- Telecommunications equipment
- Servers and storage applications
- Networking equipment
- Enterprise Networks
- Latest generation IC's (DSP, FPGA, ASIC) and Microprocessor powered applications

Features

- Compliant to RoHS EU Directive 2011/65/EU (-Z versions)
- Compliant to RoHS EU Directive 2011/65/EU under exemption 7b (Lead solder exemption). Exemption 7b will expire after June 1, 2016 at which time this product will no longer be RoHS compliant (non-Z versions)
- Delivers up to 3A output current
- High efficiency 94% at 3.3V full load ($V_{IN} = 5.0V$)
- Small size and low profile:
 22.9 mm x 10.2 mm x 6.63 mm
 (0.90 in. x 0.40 in. x 0.261 in.)
- Low output ripple and noise
- High Reliability:
 - Calculated MTBF = 11.9M hours at 25°C Full-load
- Constant switching frequency (300 kHz)
- Output voltage programmable from 0.75 Vdc to 3.63Vdc via external resistor
- Line Regulation: 0.4% (typical)
- Load Regulation: 0.4% (typical)
- Temperature Regulation: 0.4 % (typical)
- Remote On/Off
- Output overcurrent protection (non-latching)
- Wide operating temperature range (-40°C to 85°C)
- UL* 60950-1Recognized, CSA[†] C22.2 No. 60950-1-03
 Certified, and VDE[‡] 0805:2001-12 (EN60950-1) Licensed
- ISO** 9001 and ISO 14001 certified manufacturing facilities

Description

Austin MiniLynxTM SIP (single-in-line) power modules are non-isolated DC-DC converters that can deliver up to 3A of output current with full load efficiency of 94.0% at 3.3V output. These modules provide a precisely regulated output voltage programmable via an external resistor from 0.75Vdc to 3.63Vdc over a wide range of input voltage ($V_{IN} = 2.4 - 5.5Vdc$). Their open-frame construction and small footprint enable designers to develop cost- and space-efficient solutions. In addition to sequencing, standard features include remote On/Off, programmable output voltage and over current protection.

* UL is a registered trademark of Underwriters Laboratories, Inc.

- [†] CSA is a registered trademark of Canadian Standards Association.
- [‡] VDE is a trademark of Verband Deutscher Elektrotechniker e.V.
- ** ISO is a registered trademark of the International Organization of Standards



Austin MiniLynxTM: SIP Non-Isolated DC-DC Power Modules

2.4Vdc - 5.5Vdc input; 0.75Vdc to 3.63Vdc output; 3A Output Current

Absolute Maximum Ratings

Stresses in excess of the absolute maximum ratings can cause permanent damage to the device. These are absolute stress ratings only, functional operation of the device is not implied at these or any other conditions in excess of those given in the operations sections of the data sheet. Exposure to absolute maximum ratings for extended periods can adversely affect the device reliability.

Parameter	Device	Symbol	Min	Max	Unit
Input Voltage	All	VIN	-0.3	5.8	Vdc
Continuous					
Operating Ambient Temperature	All	TA	-40	85	°C
(see Thermal Considerations section)					
Storage Temperature	All	T _{stg}	-55	125	°C

Electrical Specifications

Unless otherwise indicated, specifications apply over all operating input voltage, resistive load, and temperature conditions.

Parameter	Device	Symbol	Min	Тур	Max	Unit
Operating Input Voltage	V _{0,set} ≤V _{IN} −0.5V	V _{IN}	2.4		5.5	Vdc
Maximum Input Current	All	I _{IN,max}			3.0	Adc
(V_{IN}=V_{IN,min} to V_{IN,max,} I_0=I_{0,max} V_0,set = 3.3Vdc)						
Input No Load Current	V _{O,set} = 0.75Vdc	I _{IN,No load}		10		mA
(V_{IN} = 5.0Vdc, I_0 = 0, module enabled)	V _{0,set} = 3.3Vdc	I _{IN,No load}		17		mA
Input Stand-by Current	All	I _{IN,stand-by}		0.6		mA
$(V_{IN} = 5.0Vdc, module disabled)$						
Inrush Transient	All	l²t			0.04	A²s
Input Reflected Ripple Current, peak-to-peak (5Hz to 20MHz, 1 μ H source impedance; V _{IN, min} to V _{IN, max} , Io= Iomax; See Test configuration section)	All			35		mAp-p
Input Ripple Rejection (120Hz)	All			30		dB

CAUTION: This power module is not internally fused. An input line fuse must always be used.

This power module can be used in a wide variety of applications, ranging from simple standalone operation to being part of a complex power architecture. To preserve maximum flexibility, internal fusing is not included, however, to achieve maximum safety and system protection, always use an input line fuse. The safety agencies require a fast-acting fuse with a maximum rating of 6 A (see Safety Considerations section). Based on the information provided in this data sheet on inrush energy and maximum dc input current, the same type of fuse with a lower rating can be used. Refer to the fuse manufacturer's data sheet for further information.

Electrical Specifications (continued)

Parameter	Device	Symbol	Min	Тур	Мах	Unit
Output Voltage Set-point	All	V _{O, set}	-2.0	V _{O, set}	+2.0	% V _{O, set}
(V _{IN=IN, min} , 1 ₀ =1 _{0, max} , T _A =25°C)						
Output Voltage	All	V _{O, set}	-3%	_	+3%	% V _{O, set}
(Over all operating input voltage, resistive load, and temperature conditions until end of life)						
Adjustment Range Selected by an external resistor	All	Vo	0.7525		3.63	Vdc
Output Regulation						
Line ($V_{IN}=V_{IN, min}$ to $V_{IN, max}$)	All			0.4	—	% V _{O, set}
Load (I ₀ =I _{0, min} to I _{0, max})	All			0.4	_	% V _{O, set}
Temperature ($T_{ref}=T_{A, min}$ to $T_{A, max}$)	All			0.4	_	% V _{O, set}
Output Ripple and Noise on nominal output						
(V_{IN}=V_{IN,nom} andI_{O}=I_{O,min} to $I_{O,max}$						
Cout = 1μ F ceramic// 10μ Ftantalum capacitors)						
RMS (5Hz to 20MHz bandwidth)	All		—	10	15	mV _{rms}
Peak-to-Peak (5Hz to 20MHz bandwidth)	All			25	50	mV _{pk-pk}
External Capacitance						
$\text{ESR} \ge 1 \text{ m}\Omega$	All	Co, max		_	1000	μF
$\text{ESR} \ge 10 \text{ m}\Omega$	All	Co, max		_	3000	μF
Output Current	All	l _o	0		3	Adc
Output Current Limit Inception (Hiccup Mode)	All	lo, lim		220	_	% l₀
(V ₀ = 90% of V _{0, set})						
Output Short-Circuit Current	All	I _{O, s/c}		2	_	Adc
(V₀≤250mV) (Hiccup Mode)						
Efficiency	V _{0,set} =	η		81.5		%
V _{IN} = V _{IN, nom} , T _A =25°C	$V_{0, set} =$	η		87.0		%
I _O =I _{O, max} , V _O = V _{O,set}	$V_{0,set} =$	η		89.0		%
	$V_{0,set} =$	η		90.0		%
	$V_{0,set} =$	η		93.0		%
	$V_{0,set} =$	η		94.0		%
Switching Frequency	All	f _{sw}		300	_	kHz
Dynamic Load Response						
$(dIo/dt=2.5A/\mu s; V_{IN} = V_{IN, nom}; T_A=25^{\circ}C)$	All	V _{pk}	—	250	_	mV
Load Change from Io= 50% to 100% of Io,max; 1µF ceramic// 10 µF tantalum						
Peak Deviation						
Settling Time (Vo<10% peak deviation)	All	ts	—	50	—	μs
$(dIo/dt=2.5A/\mu s; V_{IN} = V_{IN, nom}; T_A=25^{\circ}C)$	All	V _{pk}	—	250	—	mV
Load Change from Io= 100% to 50%of Io,max: 1µF ceramic// 10 µF tantalum						
Peak Deviation						
Settling Time (Vo<10% peak deviation)	All	ts		50	—	μs

Electrical Specifications (continued)

Parameter	Device	Symbol	Min	Тур	Max	Unit
Dynamic Load Response						
(dlo/dt=2.5A/ μ s; V V _{IN} = V _{IN, nom} ; T _A =25°C) Load Change from Io= 50% to 100% of Io,max; Co = 2x150 μ F polymer capacitors Peak Deviation	All	V _{pk}		60	_	mV
Settling Time (Vo<10% peak deviation)	All	ts	_	100	_	μs
(dlo/dt=2.5A/ μ s; V _{IN} = V _{IN, nom} ; T _A =25°C) Load Change from Io= 100% to 50%of Io,max: Co = 2x150 μ F polymer capacitors Peak Deviation	All	V _{pk}		60		mV
Settling Time (Vo<10% peak deviation)	All	ts	_	100	_	μs

General Specifications

Parameter	Min	Тур	Max	Unit
Calculated MTBF (Io=Io, max, TA=25°C)		Hours		
Weight	_	2.8 (0.1)	_	g (oz.)

Austin MiniLynx[™]: SIP Non-Isolated DC-DC Power Modules

2.4Vdc - 5.5Vdc input; 0.75Vdc to 3.63Vdc output; 3A Output Current

Feature Specifications

Unless otherwise indicated, specifications apply over all operating input voltage, resistive load, and temperature conditions. See Feature Descriptions for additional information.

Parameter	Device	Symbol	Min	Тур	Max	Unit
On/Off Signal interface						
Device code with Suffix "4" – Positive logic						
(On/Off is open collector/drain logic input;						
Signal referenced to GND - See feature description section)						
Input High Voltage (Module ON)	All	VIH	_	_	V _{IN, max}	V
Input High Current	All	Ін	_	_	10	μA
Input Low Voltage (Module OFF)	All	VIL	-0.2	_	0.3	V
Input Low Current	All	lı∟	_	0.2	1	mA
Device Code with no suffix – Negative Logic						
(On/OFF pin is open collector/drain logic input with						
external pull-up resistor; signal referenced to GND)						
Input High Voltage (Module OFF)	All	VIH	1.5	_	V _{IN,max}	Vdc
Input High Current	All	Ін		0.2	1	mA
Input Low Voltage (Module ON)	All	VIL	-0.2	_	0.3	Vdc
Input low Current	All	lı∟		_	10	μA
Turn-On Delay and Rise Times						
(I _O =I _{O, max} , V _{IN} = V _{IN, nom} , T _A = 25 °C,)						
Case 1: On/Off input is set to Logic Low (Module ON) and then input power is applied (delay from instant at which VIN =VIN, min until Vo=10% of Vo,set)	All	Tdelay	_	4	_	msec
Case 2: Input power is applied for at least one second and then the On/Off input is set to logic Low (delay from instant at which Von/Off=0.3V until Vo=10% of Vo, set)	All	Tdelay	_	4	_	msec
Output voltage Rise time (time for Vo to rise from 10% of $V_{0,set}$ to 90% of Vo, set)	All	Trise	-	4	-	msec
Output voltage overshoot – Startup				_	1	% V _{O, set}
I ₀ = I _{0, max} ; V _{IN} = 2.4 to 5.5Vdc, T _A = 25 °C						
Remote Sense Range			-	_	0.5	
Overtemperature Protection	All	T _{ref}		140	_	°C
(See Thermal Consideration section)						
Input Undervoltage Lockout						
Turn-on Threshold	All			2.2		V
Turn-off Threshold	All			2.0		V

Characteristic Curves

The following figures provide typical characteristics for the Austin MiniLynx™ SIP modules at 25°C.

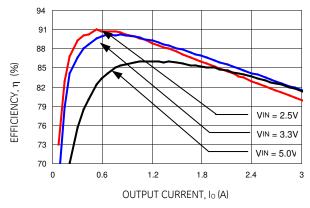


Figure 1. Converter Efficiency versus Output Current (Vout = 0.75Vdc).

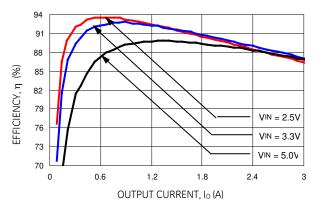


Figure 2. Converter Efficiency versus Output Current (Vout = 1.2Vdc).

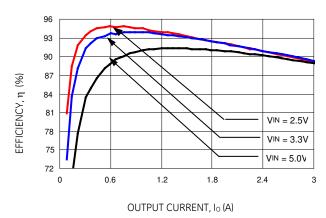


Figure 3. Converter Efficiency versus Output Current (Vout = 1.5Vdc).

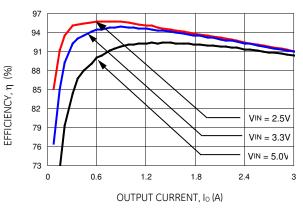


Figure 4. Converter Efficiency versus Output Current (Vout = 1.8Vdc).

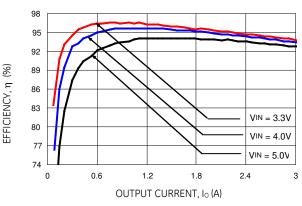
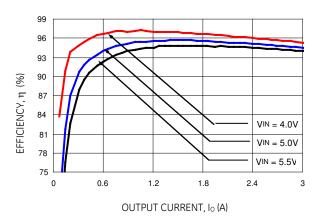
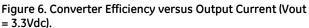


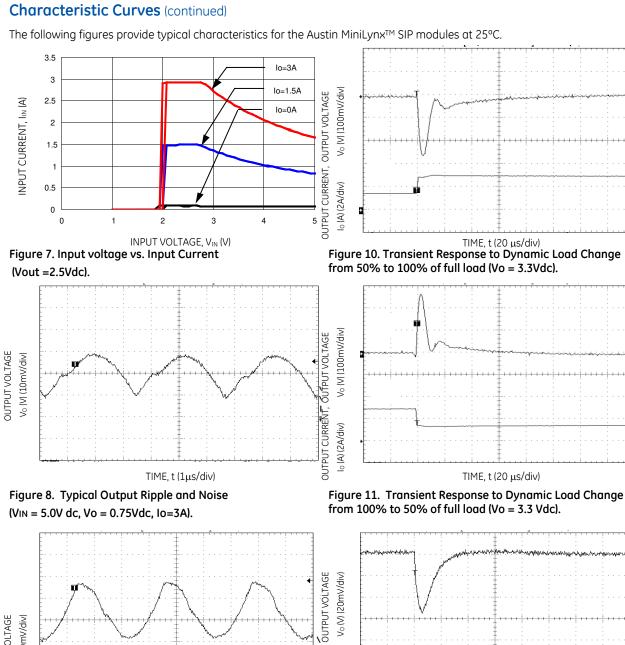
Figure 5. Converter Efficiency versus Output Current (Vout = 2.5Vdc).





Austin MiniLynx[™]: SIP Non-Isolated DC-DC Power Modules

2.4Vdc - 5.5Vdc input; 0.75Vdc to 3.63Vdc output; 3A Output Current



TIME, t (1µs/div)

Figure 9. Typical Output Ripple and Noise

(VIN = 5.0V dc, Vo = 3.3Vdc, Io=3A).

OUTPUT VOLTAGE Vo (V) (10mV/div)

µF Polymer Capacitors).

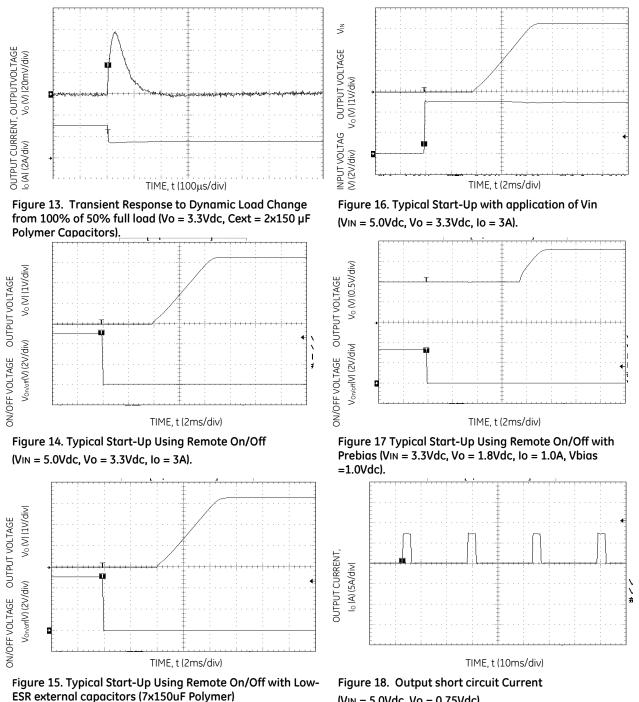
OUTPUT CURRENT, lo (A) (2A/div)

TIME, t (100µs/div)

Figure 12. Transient Response to Dynamic Load Change from 50% to 100% of full load (Vo = 3.3 Vdc, Cext = 2x150

Characteristic Curves (continued)

The following figures provide typical characteristics for the Austin MiniLynx[™] SIP modules at 25°C.



(VIN = 5.0Vdc, Vo = 0.75Vdc).

(VIN = 5.0Vdc, Vo = 3.3Vdc, Io = 3A, Co = 1050µF).

Characteristic Curves (continued)

The following figures provide thermal derating curves for the Austin MiniLynx[™] SIP modules.

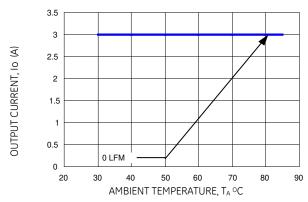


Figure 19. Derating Output Current versus Local Ambient Temperature and Airflow (VIN = 5.0, Vo=3.3Vdc).

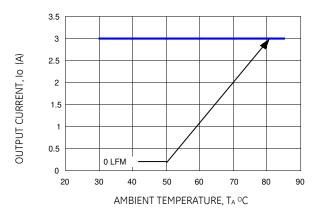
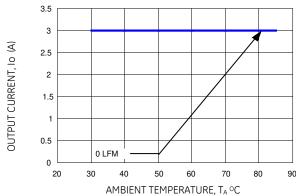
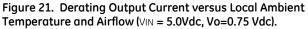


Figure 20. Derating Output Current versus Local Ambient Temperature and Airflow ($V_{IN} = 5.0Vdc$, Vo=1.8 Vdc).





Test Configurations

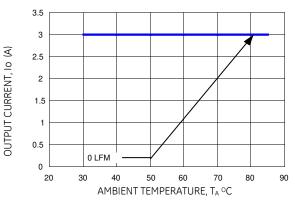


Figure 22. Derating Output Current versus Local Ambient Temperature and Airflow (VIN = 3.3dc, Vo=2.5 Vdc).

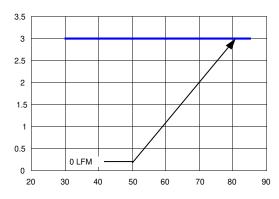


Figure 23. Derating Output Current versus Local Ambient Temperature and Airflow (VIN = 3.3dc, Vo=1.2 Vdc).

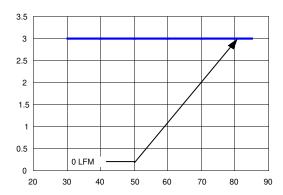


Figure 24. Derating Output Current versus Local Ambient Temperature and Airflow (VIN = 3.3dc, Vo=0.75 Vdc).

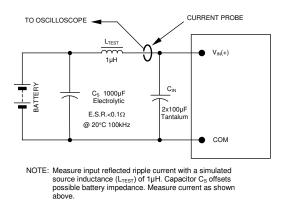
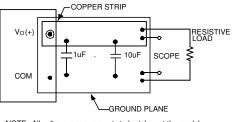
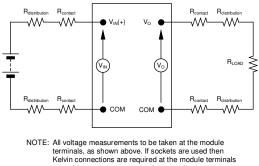


Figure 25. Input Reflected Ripple Current Test Setup.



NOTE: All voltage measurements to be taken at the module terminals, as shown above. If sockets are used then Kelvin connections are required at the module terminals to avoid measurement errors due to socket contact resistance.

Figure 26. Output Ripple and Noise Test Setup.



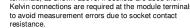


Figure 27. Output Voltage and Efficiency Test Setup.

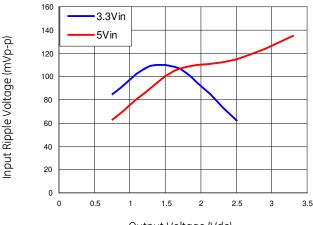
Efficiency
$$\eta = \frac{V_0. I_0}{V_{IN} I_{IN}} \times 100 \%$$

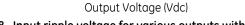
Design Considerations

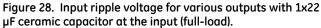
Input Filtering

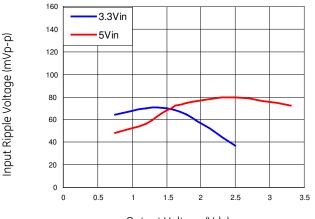
The Austin MiniLynx[™] SIP module should be connected to a low-impedance source. A highly inductive source can affect the stability of the module. An input capacitance must be placed directly adjacent to the input pin of the module, to minimize input ripple voltage and ensure module stability.

To minimize input voltage ripple, low-ESR polymer and ceramic capacitors are recommended at the input of the module. Figure 28 shows the input ripple voltage (mVp-p) for various outputs with 1x22 μ F (TDK: C3225X5R0J226V) ceramic capacitor at the input of the module. Figure 29 shows the input ripple with 1x47 μ F (TDK: C3225X5R0J476M) ceramic capacitor at full load.









Output Voltage (Vdc)

Figure 29. Input ripple voltage for various outputs with 1x47 μF ceramic capacitor at the input (full load).

Design Considerations (continued)

Output Filtering

The Austin MiniLynxTM SIP module is designed for low output ripple voltage and will meet the maximum output ripple specification with 1 µF ceramic and 10 µF tantalum capacitors at the output of the module. However, additional output filtering may be required by the system designer for a number of reasons. First, there may be a need to further reduce the output ripple and noise of the module. Second, the dynamic response characteristics may need to be customized to a particular load step change.

To reduce the output ripple and improve the dynamic response to a step load change, additional capacitance at the output can be used. Low ESR polymer and ceramic capacitors are recommended to improve the dynamic response of the module. For stable operation of the module, limit the capacitance to less than the maximum output capacitance as specified in the electrical specification table.

Safety Considerations

For safety agency approval the power module must be installed in compliance with the spacing and separation requirements of the end-use safety agency standards, i.e., UL 60950-1, CSA C22.2 No. 60950-1-03, and VDE 0850:2001-12 (EN60950-1) Licensed.

For the converter output to be considered meeting the requirements of safety extra-low voltage (SELV), the input must meet SELV requirements. The power module has extra-low voltage (ELV) outputs when all inputs are ELV.

The input to these units is to be provided with a fast-acting fuse with a maximum rating of 6A in the positive input lead.

Feature Description

Remote On/Off

The Austin MiniLynx[™] SIP power modules feature an On/Off pin for remote On/Off operation. Two On/Off logic options are available in the Austin MiniLynx[™] series modules. Positive Logic On/Off signal, device code suffix "4", turns the module ON during a logic High on the On/Off pin and turns the module OFF during a logic Low. Negative logic On/Off signal, no device code suffix, turns the module OFF during logic High on the On/Off pin and turns the module ON during logic Low.

For positive logic modules, the circuit configuration for using the On/Off pin is shown in Figure 30. The On/Off pin is an open collector/drain logic input signal (Von/Off) that is referenced to ground. During a logic-high (On/Off pin is pulled high internal to the module) when the transistor Q1 is in the Off state, the power module is ON. Maximum allowable leakage current of the transistor when Von/off = $V_{IN,max}$ is 10µA. Applying a logic-low when the transistor Q1 is turned-On, the power module is OFF. During this state VOn/Off must be less than 0.3V. When not using positive logic On/off pin, leave the pin unconnected or tie to V_{IN}.

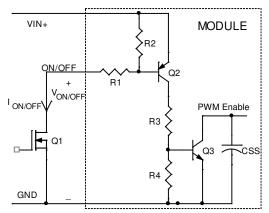


Figure 30. Circuit configuration for using positive logic On/OFF.

For negative logic On/Off devices, the circuit configuration is shown is Figure 31. The On/Off pin is pulled high with an external pull-up resistor (typical $R_{pull-up} = 5k$, +/- 5%). When transistor Q1 is in the Off state, logic High is applied to the On/Off pin and the power module is Off. The minimum On/off voltage for logic High on the On/Off pin is 1.5Vdc. To turn the module ON, logic Low is applied to the On/Off pin by turning ON Q1. When not using the negative logic On/Off, leave the pin unconnected or tie to GND.

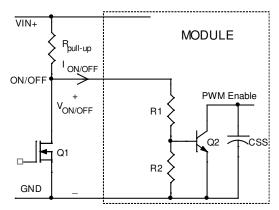


Figure 31. Circuit configuration for using negative logic On/OFF.

Overcurrent Protection

To provide protection in a fault (output overload) condition, the unit is equipped with internal current-limiting circuitry and can endure current limiting continuously. At the point of current-limit inception, the unit enters hiccup mode. The unit operates normally once the output current is brought back into its specified range. The typical average output current during hiccup is 3.5A.

Input Undervoltage Lockout

At input voltages below the input undervoltage lockout limit, module operation is disabled. The module will begin to operate at an input voltage above the undervoltage lockout turn-on threshold.

Overtemperature Protection

To provide over temperature protection in a fault condition, the unit relies upon the thermal protection feature of the controller IC. The unit will shutdown if the thermal reference point T_{ref} , exceeds 140°C (typical), but the thermal shutdown is not intended as a guarantee that the unit will survive temperatures beyond its rating. The module will automatically restart after it cools down.

Feature Descriptions (continued)

Output Voltage Programming

The output voltage of the Austin MiniLynxTM SIP can be programmed to any voltage from 0.75 Vdc to 3.63 Vdc by connecting a single resistor (shown as Rtrim in Figure 32) between the TRIM and GND pins of the module. Without an external resistor between TRIM pin and the ground, the output voltage of the module is 0.7525 Vdc. To calculate the value of the resistor *Rtrim* for a particular output voltage Vo, use the following equation:

$$Rtrim = \left[\frac{21070}{Vo - 0.7525} - 5110\right]\Omega$$

For example, to program the output voltage of the Austin MiniLynx[™] module to 1.8 Vdc, *Rtrim* is calculated is follows:

$$Rtrim = \left[\frac{21070}{1.8 - 0.7525} - 5110\right]$$

$$Rtrim = 15.004k\Omega$$

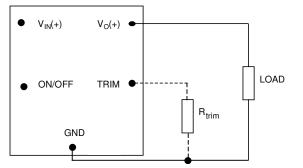


Figure 32. Circuit configuration to program output voltage using an external resistor.

Table 1 provides *Rtrim* values required for some common output voltages.

Table 1

V _{O, set} (V)	Rtrim (KΩ)
0.7525	Open
1.2	41.973
1.5	23.077
1.8	15.004
2.5	6.947
3.3	3.160

By using a 1% tolerance trim resistor, set point tolerance of $\pm 2\%$ is achieved as specified in the electrical specification. The POL Programming Tool, available at www.gecriticalpower.com under the Design Tools section, helps determine the required external trim resistor needed for a specific output voltage.

Voltage Margining

Output voltage margining can be implemented in the Austin MiniLynx[™] modules by connecting a resistor, R_{margin-up}, from the Trim pin to the ground pin for margining-up the output voltage and by connecting a resistor, R_{margin-down}, from the Trim pin to the Output pin for margining-down. Figure 33 shows the circuit configuration for output voltage margining. The POL Programming Tool, available at ww.gecriticalpower.com under the Design Tools section, also calculates the values of R_{margin-up} and R_{margin-down} for a specific output voltage and % margin. Please consult your local GE technical representative for additional details.

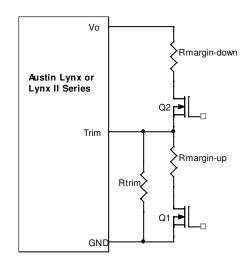


Figure 33. Circuit Configuration for margining Output voltage.

GE

Austin MiniLynx[™]: SIP Non-Isolated DC-DC Power Modules 2.4Vdc – 5.5Vdc input; 0.75Vdc to 3.63Vdc output; 3A Output Current

Thermal Considerations

Power modules operate in a variety of thermal environments; however, sufficient cooling should always be provided to help ensure reliable operation.

Considerations include ambient temperature, airflow, module power dissipation, and the need for increased reliability. A reduction in the operating temperature of the module will result in an increase in reliability. The thermal data presented here is based on physical measurements taken in a wind tunnel. The test set-up is shown in Figure 35. Note that the airflow is parallel to the long axis of the module as shown in figure 34. The derating data applies to airflow in either direction of the module's long axis.

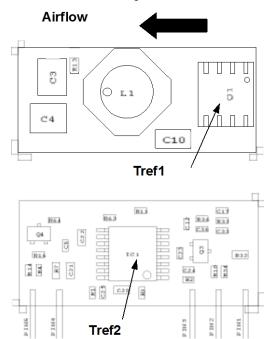


Figure 34. Tref Temperature measurement location.

The thermal reference point, T_{ref} used in the specifications is shown in Figure 34. For reliable operation this temperature should not exceed 115°C.

The output power of the module should not exceed the rated power of the module (Vo,set × Io,max).

Please refer to the Application Note "Thermal Characterization Process For Open-Frame Board-Mounted Power Modules" for a detailed discussion of thermal aspects including maximum device temperatures.

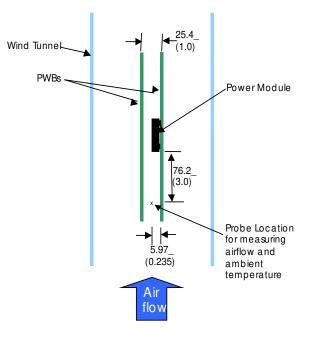


Figure 35. Thermal Test Set-up.

Post solder Cleaning and Drying Considerations

GF

Post solder cleaning is usually the final circuit-board assembly process prior to electrical board testing. The result of inadequate cleaning and drying can affect both the reliability of a power module and the testability of the finished circuit-board assembly. For guidance on appropriate soldering, cleaning and drying procedures, refer to *Board Mounted Power Modules: Soldering and Cleaning* Application Note.

Through-Hole Lead-Free Soldering Information

The RoHS-compliant through-hole products use the SAC (Sn/Ag/Cu) Pb-free solder and RoHS-compliant components. They are designed to be processed through single or dual wave soldering machines. The pins have an RoHS-compliant finish that is compatible with both Pb and Pb-free wave soldering processes. A maximum preheat rate of 3°C/s is suggested. The wave preheat process should be such that the temperature of the power module board is kept below 210°C. For Pb solder, the recommended pot temperature is 260°C, while the Pb-free solder pot is 270°C max. Not all RoHS-compliant through-hole products can be processed with paste-through-hole Pb or Pb-free reflow process. If additional information is needed, please consult with your GE technical representative for more details.

Austin MiniLynx™: SIP Non-Isolated DC-DC Power Modules

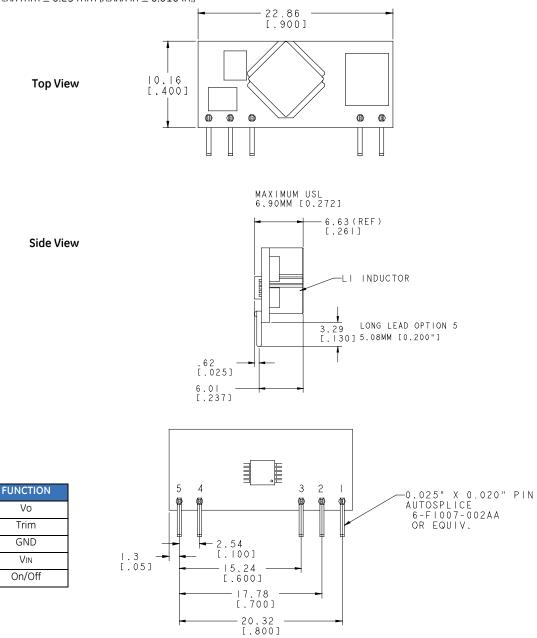
2.4Vdc – 5.5Vdc input; 0.75Vdc to 3.63Vdc output; 3A Output Current

Mechanical Outline

Dimensions are in millimeters and (inches).

Tolerances: x.x mm \pm 0.5 mm (x.xx in. \pm 0.02 in.) [unless otherwise indicated]

x.xx mm \pm 0.25 mm (x.xxx in \pm 0.010 in.)



PIN

1

2

3

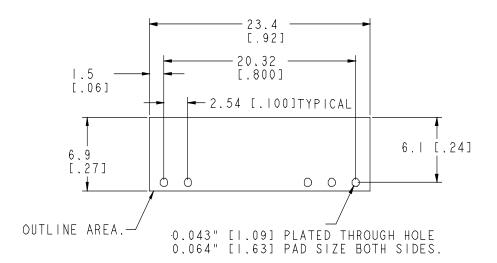
4

5

Recommended Pad Layout

Dimensions are in millimeters and (inches). Tolerances: x.x mm \pm 0.5 mm (x.xx in. \pm 0.02 in.) [unless otherwise indicated] x.xx mm \pm 0.25 mm (x.xxx in \pm 0.010 in.)

PIN	FUNCTION
1	Vo
2	Trim
3	GND
4	Vin
5	On/Off



Component side view

Ordering Information

Please contact your GE Sales Representative for pricing, availability and optional features.

Table 3. Device Codes

Device Code	Input Voltage Range	Output Voltage	Output Current	Efficiency 3.3V@ 3A	On/Off Logic	Connector Type	Comcodes
AXH003A0X	2.4 – 5.5Vdc	0.75 – 3.63Vdc	3 A	94.0 %	Negative	SIP	108992640
AXH003A0X4	2.4 – 5.5Vdc	0.75 – 3.63Vdc	3 A	94.0 %	Positive	SIP	108992657
AXH003A0X-Z	2.4 – 5.5Vdc	0.75 – 3.63Vdc	3 A	94.0 %	Negative	SIP	CC109104865
AXH003A0X4-Z	2.4 – 5.5Vdc	0.75 – 3.63Vdc	3 A	94.0 %	Positive	SIP	CC109104873

-Z refers to RoHS compliant Versions

Contact Us

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