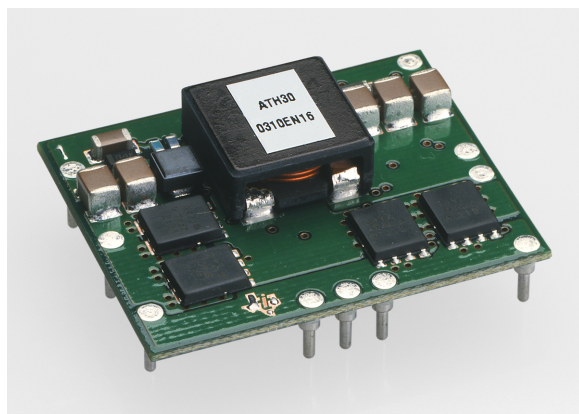


30Amps ATH30

PRELIMINARY

Total Power: 143W
Input Voltages: 3.3V, 5V, 12V
No. of Outputs: Single



Special Features

- Point-of-Load Alliance product
- Open frame TH or SMT termination
- Auto-Track™ Sequencing
- Margin Up/Down Controls
- Remote sense compensation
- Output Voltage Adjust (Resistor Programming)
- Under Voltage Lockout
- Pre-Biased start-up
- Output On/Off Inhibit
- -40°C to +85°C Ambient Air Operation
- Non Isolated module

Environmental

Ambient air operating temperature range:
-40°C to +85°C
Storage temperature: -40°C to +125°C
Calculated MTBF: > TBA

Safety

UL,cUL 60950 Recognition (Pending)
EN 60950 though TUV or VDE (Pending)

Electrical Specs

Input

Input Range 3.0 - 3.6V
4.5 - 5.5V
10.8 - 13.2V

Under Voltage Lockout with hysteresis
Efficiency up to 92%

Output

Overall Regulation 1% of Vo Typ
Noise/Ripple 40mV Typ (2.5Vo and below)
1% Vo Typ (Vo > 2.5V)
Remote sense Up to 300mV max
Transient Response 100mV typical for 3.3Vo
for 50% to 100% I_{O,MAX} step change
70us recovery time (Co = 330uF)
Over Current Protection 155% I_{O,MAX} typical (autorecovery)

Control

Inhibit On/Off Positive Enable Logic
Output Voltage Adjust See output range on page 2
Output Margin ±5% V_{O,NOM}
Output Auto-Track™ (See Note 5)

Specifications subject to change without notice

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Ordering Information

Input Voltage	Output Voltage	Output ² Current	Efficiency ³	Model Number
3.0V to 3.6V	0.8V to 2.5V	30A	93%	ATH30T033-9(S)(J)
4.5V to 5.5V	0.8V to 3.6V	30A	94%	ATH30T05-9(S)(J)
10.8V to 13.2V	1.2V to 5.5V	26A	94%	ATH26K12-9(S)(J)

OPTIONS:

- "-9J" - Output Trim, TH termination, Tray Packaging
- "-9SJ" - Output Trim, SMT termination, Tray Packaging
- "-9S" - Output Trim, SMT Termination, T&R packaging

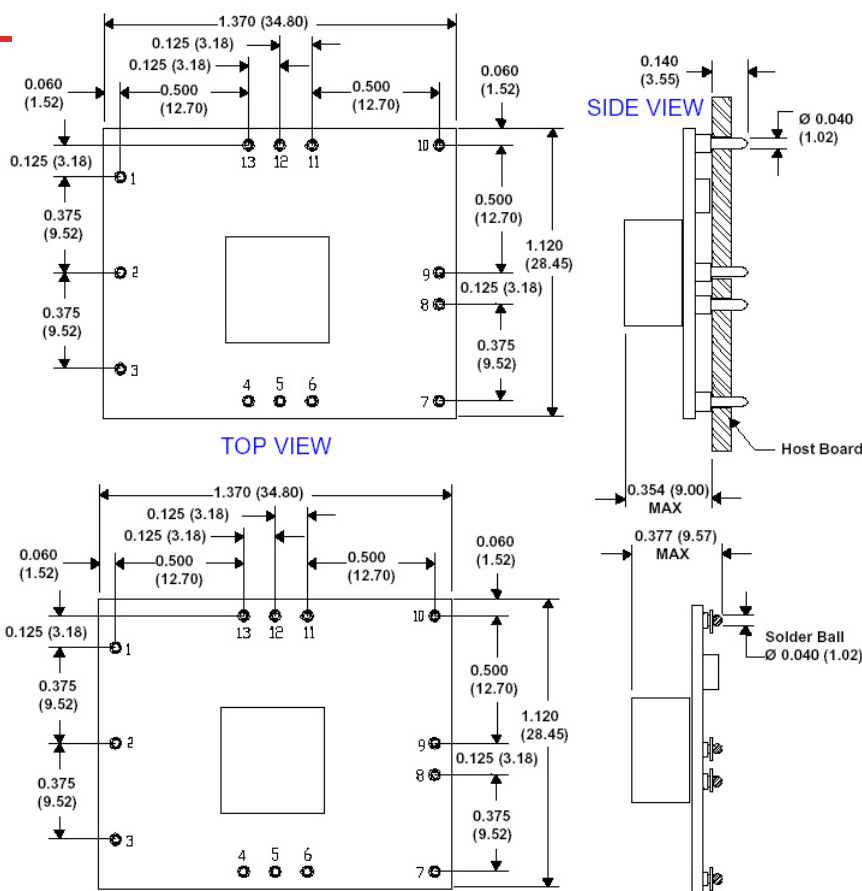
Pin Assignments

Single Output

	PINS
GND	: 1, 3
Vin	: 2
Inhibit	: 4
Vo Adjust	: 5
Vo Sense	: 6
Vout	: 8, 9
GND	: 7, 10
Track	: 11
Margin Down	: 12
Margin Up	: 13

Notes:

- Nominal values apply with sense pins connected to +Vout and Ground Return with other control pins unconnected.
- Output derating applies at elevated ambient temperature.
- Typical efficiency taken at 20A load, 2.5V output (3.3Vin device); 20A load, 3.3V output (5Vin device); 18A load, 5V output (12Vin device).
- Mechanical Dimensions are nominal values.
- Consult the technical reference notes when available.
- Auto-Track™ is a trademark of Texas Instruments.
- Specification subject to change without notice.



Astec Industry Standard

* This is a Preliminary Data Sheet. Astec reserves the right to make changes to the information contained herein without notice and assumes no liability as a result of its use or application.
(REV01: JULY 31, 2003)