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60 Watts

APC18 (18 Amps)



Special Features

- Point of load (POL) applications
- High Current slew rate at 2.5A/us¹
- Open frame SMT
- High efficiency, 3.3V @ 95% (Typ)
- Adjustable Output through external resistor programming
- -40°C to +85°C Ambient operating temperature
- UVLO protection
- Positive Enable function
- Low output ripple and noise
- Regulation to zero load

Environmental

Operating temperature

-40°C to +85°C

Storage temperature: -40°C to +125°C

MTBF: >1 million hours

Safety

UL, cUL 609500 Recognized (Pending)

TUV EN60950 Licensed (Pending)

Electrical Specs

Input

Input range	3.0V to 5.5V
Efficiency	3.3V @ 95% (Typ)

Control

Enable	TTL compatible (positive enable)
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Output

Regulation (Line, Load, Temp)	<3%
Load Current	18A max
Ripple and noise ¹	50mV
Output Adjust Range	0.75V - 3.6V
Current Slew Rate	up to 2.5A/μs
Transient Response ¹	150mV typical deviation (3.3V _o) for 50% to 100% step load 200 μs recovery
Remote Sense	10% of V _o
Turn On Input Voltage	3.0V (Typical)
UVLO Hysteresis	300mV (Typical)
OCP/OTP	Hiccup - auto recovery
Isolation	Non-Isolated module

Specifications subject to change without notice.



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APC18T04-9

Ordering Information

Input Voltage	Output Voltage	Output Current	Efficiency Full Load (Typ)	Model Number
3.0V - 5.5V	0.75 to 3.6V	18A	95%	APC18T04-9(J)

Note:

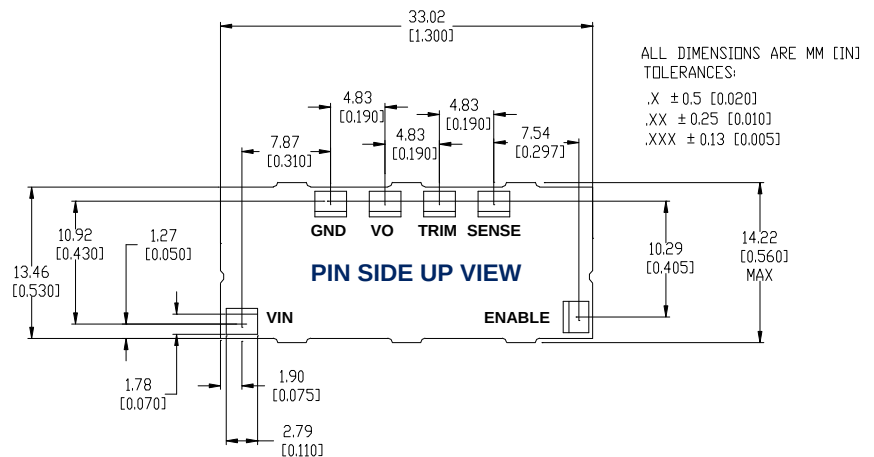
- 18A max output current with total output power limited to 60W - minimal output derating required
- Typical Efficiency for 3.3V output; full load; nominal input voltage; 200LFM at $T_A=25^{\circ}\text{C}$
- Suffix "J" designates tray packaging, non "J" is T&R

Pin Assignment

Notes:

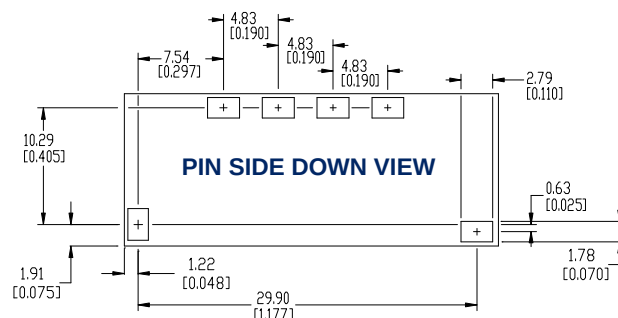
1. 200uF and 2x 150uF input and output capacitance required.
2. All specifications are typical at nominal line, full load and 25°C ambient temperature unless otherwise noted.
3. All specifications subject to change without notice. Mechanical drawings are for reference only
4. Technical Reference Notes should be consulted for detailed information
5. Warranty: 1yr

Mechanical Dimensions



Recommended PAD Layout

PAD Size
MIN: 1.6 x 2.8 mm [0.065 x 0.110 inches]
REC: 1.8 x 2.8 mm [0.070 x 0.110 inches]
MAX: 2.0 x 3.0 mm [0.080 x 0.130 inches]



* 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. (REV A: SEPTEMBER 1, 2004)

Astec Industry Standard