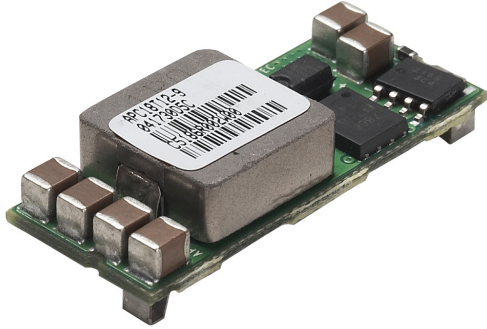


# 60 Watts

## APC18 (18 Amps)

Total Power: 60 Watts  
 Input Voltages: 3.0V to 5.5V  
 No. of Outputs: Single



### Special Features

- Point of load (POL) applications
- High Current slew rate at 2.5A/us<sup>1</sup>
- 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)

#### Output

Regulation  
 (Line, Load, Temp) <3%  
 Load Current 18A max  
 Ripple and noise<sup>1</sup> 50mV  
 Output Adjust Range 0.75V - 3.6V  
 Current Slew Rate up to 2.5A/μS  
 Transient Response<sup>1</sup> 150mV typical deviation (3.3V<sub>o</sub>)  
 for 50% to 100% step load  
 200 μS recovery  
 Remote Sense 10% of V<sub>o</sub>  
 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.

AMERICAS

5810 Van Allen Way  
 Carlsbad, CA 92008  
 Telephone: 760-930-4600  
 Facsimile: 760-930-0698

EUROPE

Astec House, Waterfront Business Park  
 Merry Hill, Dudley  
 West Midlands, DY5 1LX, UK  
 Telephone: 44 (1384) 842-211  
 Facsimile: 44 (1384) 843-355

ASIA

Units 2111-2116, Level 21  
 Tower 1, Metroplaza  
 223, Hing Fong Road  
 Fwai Fong, New Territories  
 Hong Kong  
 Telephone: 852-2437-9662  
 Facsimile: 852-2402-4426



## 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:

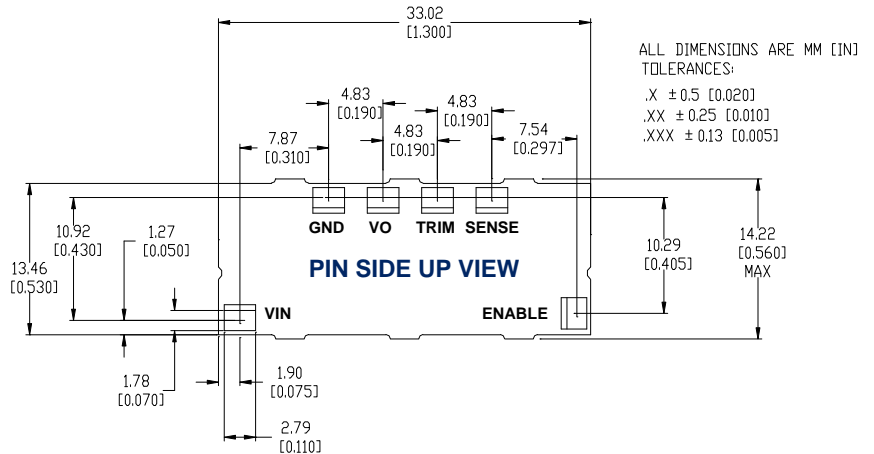
- 18A max output current with total output power limited to 60W - minimal output derating required
- Typical Efficiency for 3.3V output; full load; nominal input voltage; 200LFM at T<sub>A</sub>=25 °C
- Suffix "J" designates tray packaging, non "J" is T&R

## Pin Assignment

Notes:

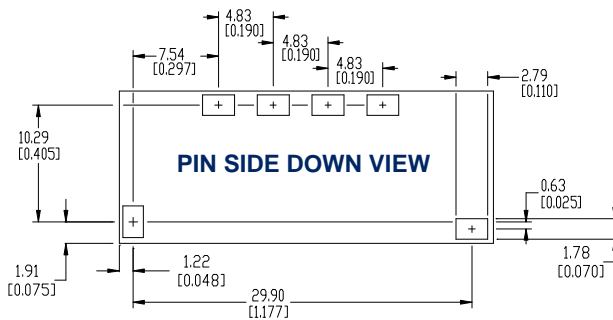
1. 200uF and 2x 150uF input and output capacitance required.
2. All specifications are typical at nominal line, full load and 25°C ambient temperature unless otherwise noted.
3. All specifications subject to change without notice. Mechanical drawings are for reference only
4. Technical Reference Notes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