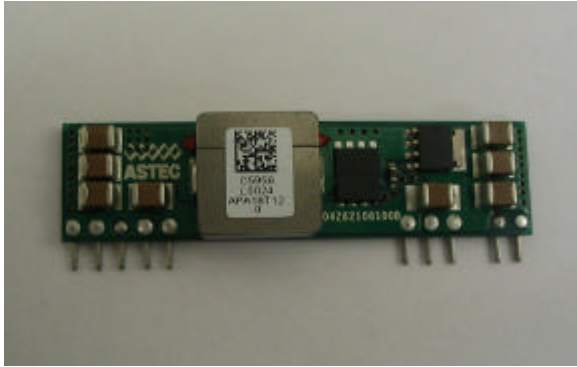


# 75 Watts

## APA18

Total Power: 75 Watts  
 Input Voltages: 10.0V to 14.0V  
 No. of Outputs: Single



### Special Features

- Point of load (POL) applications
- High Current slew rate at 1A/uS
- High efficiency - 91%@3.3V (typ)
- Open frame SIP
- -40°C to +85°C Ambient operating temperature
- Positive enable function
- Low output ripple and noise
- Adjustable output voltage through external resistor programming
- Regulation to zero load

### Environmental

Operating temperature  
 -40°C to +85°C (Ambient temperature)  
 Storage temperature: -55°C to +125°C  
 MTBF: >1million hours

### Safety

UL , cUL 60950 Recognized (Pending)  
 TUV EN60950 Licensed (Pending)

### Electrical Specs

#### Input

Input range 10.0 to 14.0V  
 Input Surge 15V  
 Efficiency 92%@3.3V (Typical)

#### Output

Line Regulation <0.5%  
 Load Regulation  
 0.75Vo 7mV  
 0.75 < Vo < 3.3V 15mV  
 3.3V ≤ Vo 25mV

Regulation < 1.0%  
 Over operating  
 Temperature range

Load Current 18A max \*

Noise / Ripple  
 0.75V - 5.0V 60mV  
 >5.0V 75mV

Current Slew Rate up to 1A/uS

Transient Response 200mV typical deviation  
 for Load Change of 50% step  
 between 10% to 100% of load  
 200uS recovery

Remote Sense 0.25V

Turn On Input Voltage 8.7V - 9.7V (Typ)

UVLO Hysteresis 1V (Typ)

OCP/OTP Hiccup - auto recovery

Isolation Non-isolated module

#### Control

Enable TTL compatible  
 (positive enable)

#### Note

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  
 Tower1, Metroplaza  
 223, Hing Fong Road  
 Fwai Fong, New Territories  
 Hong Kong  
 Telephone: 852-2437-9662  
 Facsimile: 852-2402-4426

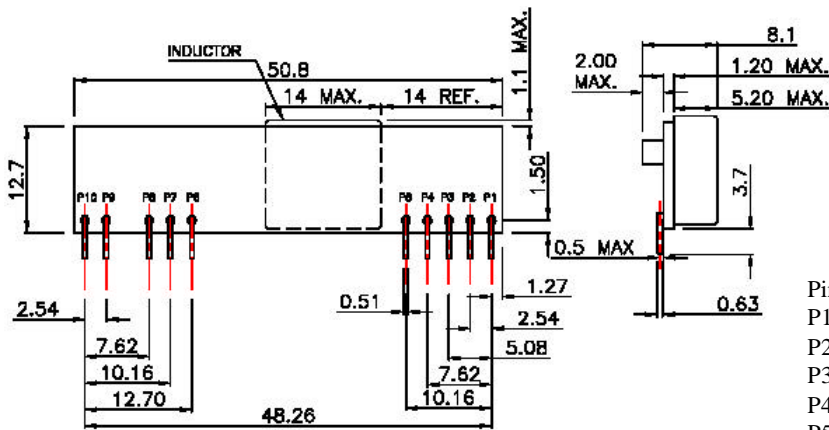


Ordering Information

Input Voltage	Output Voltage	Output Current	Efficiency	Model Number
10.0V - 14.0V	0.75 to 5.5V	18A*	92% (Typ)**	APA18T12-9
10.0V - 14.0V	0.75 to 5.5V	18A*	92% (Typ)**	APA18T12-9H

Note: \* 18A max output current with total output power limited to 75W. Airflow required.  
 \*\* Typical Efficiency for 3.3V output, full load, nominal input voltage, 300LFM, Ta = 25°C  
 Suffix "H" for Horizontal pins  
 3pcs 22uF ceramic capacitors is recommended to be placed from +Vin to GND, 10uF Tantalum capacitors, 1uF ceramic is recommended to be placed from +Vo to GND

VERTICAL MOUNTING PINS DRAWING



Pin Number	Pin Connection	Function
P1	Vo	Output Voltage
P2	Vo	Output Voltage
P3	SENSE	Sense
P4	Vo	Output Voltage
P5	GND	Ground
P6	GND	Ground
P7	Vin	Input Voltage
P8	Vin	Input Voltage
P9	TRIM	Output Voltage Adjustment
P10	ENABLE	Output Voltage Enable

HORIZONTAL MOUNTING PINS DRAWING

