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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# POWER

## APC18 75 Watts

### Data Sheet

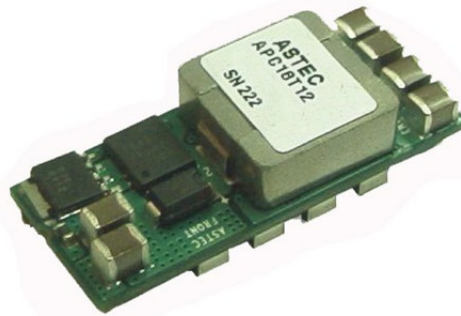
**Total Power:** 75 Watts  
**Input Voltages:** 10.0 - 14.0 V  
**# of Outputs:** Single

### SPECIAL FEATURES

- Point-of-load (POL) applications
- High current slew rate at 2.5 A /  $\mu\text{S}$ <sup>1</sup>
- Open frame SMT
- High efficiency, 3.3 V @ 92% typical
- 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

### SAFETY

- UL/cUL 60950 Recognized
- TÜV EN60950 Licensed



### Electrical Specifications

Input	
Input voltage range	10.0 - 14.0 V
Input surge	15 V
Efficiency	3.3 V @ 92% typical
Control	
Enable	TTL compatible (positive enable)
Output	
Regulation (line, Load, Temp)	<3%
Load current	18 A max
Ripple and noise <sup>1</sup>	50 mV
Output adjust range	0.75 V - 5.5 V
Current slew rate	up to 2.5 A / $\mu\text{S}$
Transient response <sup>1</sup>	3% typical deviation (for 5 V <sub>o</sub> ) for 50% to 75% step load 200 $\mu\text{S}$ recovery
Remote sense	10% of V <sub>o</sub>
Turn on input voltage	10 V (typical)
UVLO hysteresis	1 V (typical)
OCP/OTP	Hiccup - auto recovery
Isolation	Non-isolated module

### Environmental Specifications

Operating temperature	-40 °C to +85 °C
Storage temperature	-40 °C to +125 °C
MTBF	1 million hours

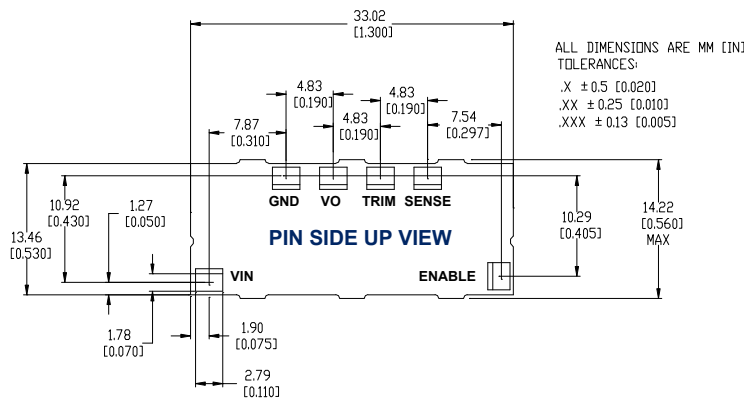
### Ordering Information

Model Number	Input Voltage	Output Voltage	Output Current	Efficiency (Typical)
APC18T12-9(J)L	10.0 - 14.0 V	0.75 - 5.50 Vdc	18 A	92%

**Note:**

18 A max output current with total output power limited to 75 W - minimal output derating required  
 Typical efficiency for 3.3 V output; full load; nominal input voltage; 200 LFM at Ta = 25 °C  
 Suffix "J" designates tray packaging, non "J" is tape and reel

### Mechanical Drawings

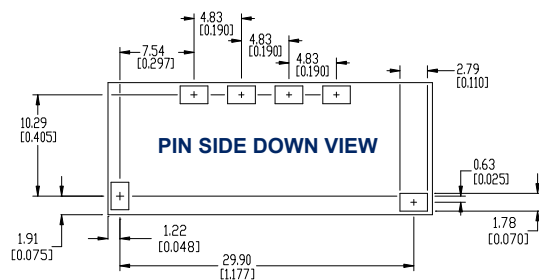


**Notes:**

1. 200 uF 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: One year

#### 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]



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