

Data Sheet

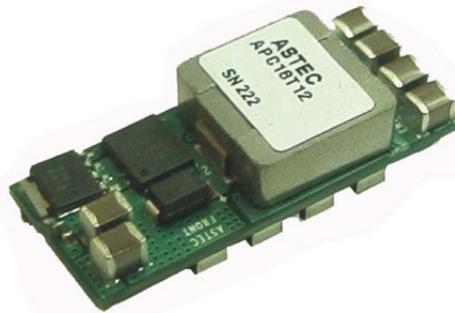
Total Power: 75 Watts
Input Voltages: 10.0 - 14.0 V
of Outputs: Single

SPECIAL FEATURES

- Point-of-load (POL) applications
- High current slew rate at 2.5 A / μS ¹
- 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 ¹	50 mV
Output adjust range	0.75 V - 5.5 V
Current slew rate	up to 2.5 A / μS
Transient response ¹	3% typical deviation (for 5 V _o) for 50% to 75% step load 200 μS recovery
Remote sense	10% of V _o
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

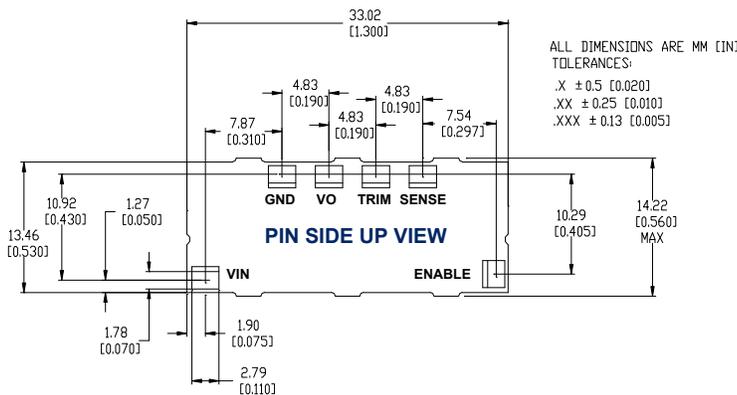
Ordering Information

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

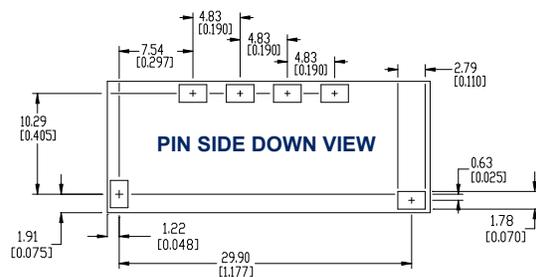


Notes:

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