



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Data Sheet

Total Power: 60 Watts
Input Voltages: 3.0 - 5.5 V
of Outputs: Single

SPECIAL FEATURES

- Point-of-load (POL) applications
- High current slew rate at 2.5 A / μ S¹
- Open frame SMT
- High efficiency, 3.3 V @ 95% 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	3.0 - 5.5 V
Efficiency	3.3 V @ 95% 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 - 3.6 V
Current slew rate	up to 2.5 A / μ S
Transient response ¹	150 mV typical deviation (3.3 Vo) for 50% to 100% step load 200 μ S recovery
Remote sense	10% of Vo
Turn on input voltage	3.0 V (typical)
UVLO hysteresis	300 mV (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)
APC18T04-9(J)L	3.0 - 5.5 V	0.75 - 3.6 Vdc	18 A	95%

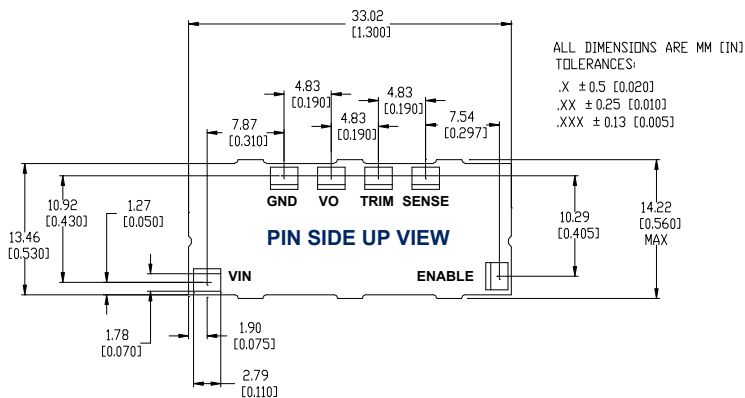
Note:

18 A max output current with total output power limited to 60 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

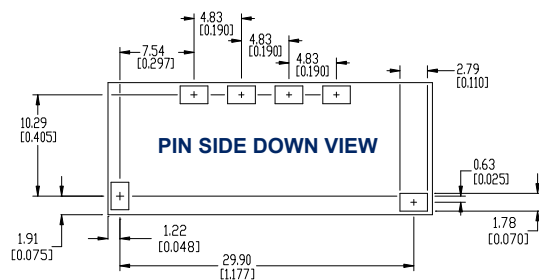


Notes:

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]



WORLDWIDE OFFICES

Americas

2900 S.Diablo Way
 Tempe, AZ 85282
 USA
 +1 888 412 7832

Europe (UK)

Waterfront Business Park
 Merry Hill, Dudley
 West Midlands, DY5 1LX
 United Kingdom
 +44 (0) 1384 842 211

Asia (HK)

14/F, Lu Plaza
 2 Wing Yip Street
 Kwun Tong, Kowloon
 Hong Kong
 +852 2176 3333

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www.artesyn.com

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 For support: productsupport.ep@artesyn.com