

Embedded Power for Business-Critical Continuity

## AVC Series

20 Watts

Total Power: 20 Watts  
Input Voltage: 3.3V, 5V  
# of Outputs: Single



Rev. 09.21.05  
AVC Series  
1 of 2

## Electrical Specifications

Input	
Input range	2.97 - 3.63VDC for 3.3V 4.5 - 5.5VDC for 5V
Efficiency	93% @ 3.3Vo, 4A
Output	
Ripple	50mV p-p for 5Vin 40mV p-p for 3.3Vin
Output voltage adjust	±10% of V <sub>o nom</sub>
Isolation	Non-Isolated model
Control	
Enable	ON: On/Off pin open OFF: On/Off pin connected to GND

## Environmental Specifications

Ambient Operating temperature	-40°C to +80°C (forced air 0.2m/s)
Storage temperature	-45°C to +90°C

## Special Features

- Ultra Low Profile - 6.0mm
- POL application
- Efficiency - 93% @ 3.3V
- -40°C to +85°C Operating temperature(Ambient)
- Open Frame SMT
- Low output ripple and noise
- Regulation to zero load
- Pb-free reflow compatible and ROHS compliant

## Safety

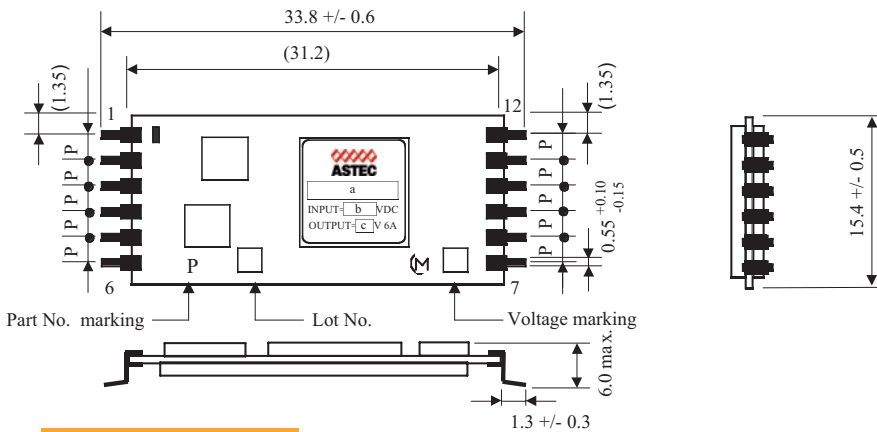
None



### Ordering Information

Input Voltage	Output Voltage	Efficiency	Model Number
3.3V	1.0V @ 6A	84% (Typ)	AVC06S04
3.3V	1.2V @ 6A	87% (Typ)	AVC06K04
3.3V	1.5V @ 6A	89% (Typ)	AVC06M04
3.3V	1.8V @ 6A	90% (Typ)	AVC06Y04
3.3V	2.0V @ 6A	92% (Typ)	AVC06D04
3.3V	2.5V @ 6A	93% (Typ)	AVC06G04
5.0V	1.0V @ 6A	82% (Typ)	AVC06S05
5.0V	1.2V @ 6A	84% (Typ)	AVC06K05
5.0V	1.5V @ 6A	86% (Typ)	AVC06M05
5.0V	1.8V @ 6A	88% (Typ)	AVC06Y05
5.0V	2.0V @ 6A	89% (Typ)	AVC06D05
5.0V	2.5V @ 6A	91% (Typ)	AVC06G05
5.0V	3.3V @ 6A	93% (Typ)	AVC06F05

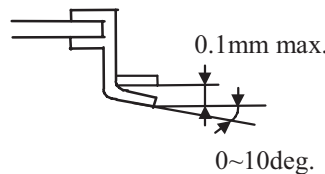
### Pin Assignment



### Pin Assignments

Pin No	Symbol	Pin No	Symbol
1	On/Off	7	Gnd
2	Vin	8	Gnd
3	Vin	9	Vout
4	Vin	10	Vout
5	Gnd	11	Vout
6	Gnd	12	Adjust

Note: Astec reserves the right to make changes to the information contained herein without notice and assumes no liability of its use and application.



### Astec Power

5810 Van Allen Way  
Carlsbad, CA 92008  
USA  
Telephone: +1 760 930 4600  
Facsimile: +1 760 930 0698  
Technical Support: +1 888 41 ASTEC  
or +1 407 241 2752

Waterfront Business Park  
Merry Hill, Dudley  
West Midlands, DY5 1LX  
United Kingdom  
Telephone: +44 (0) 1384 842 211  
Facsimile: +44 (0) 1384 843 355

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

For global contact, visit:  
[www.astecpower.com](http://www.astecpower.com)  
[technicalsupport@astec.com](mailto:technicalsupport@astec.com)

While every precaution has been taken to ensure accuracy and completeness in this literature, Astec Power assumes no responsibility, and disclaims all liability for damages resulting from use of this information or for any errors or omissions.

Printed in USA

**Emerson Network Power.**  
The global leader in enabling  
business-critical continuity.

- AC Power
- Connectivity
- DC Power
- Embedded Power**
- Inbound Power
- Integrated Cabinet Solutions
- Outside Plant
- Precision Cooling
- Site Monitoring and Services

[EmersonNetworkPower.com](http://EmersonNetworkPower.com)