

AVC Series

20 Watts

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



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

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 _{Onom} |
| Isolation | Non-Isolated model |
| Control | |
| Enable | ON: On/Off pin open OFF: On/Off pin connected to GND |

Environmental Specifications

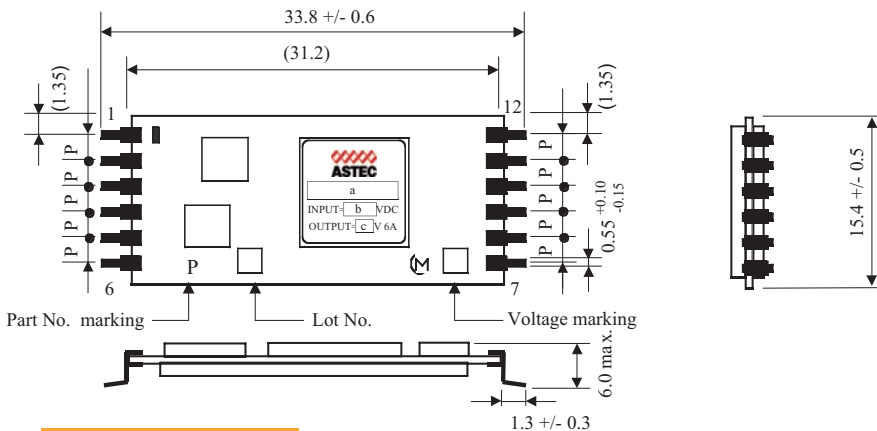
| | |
|-------------------------------|------------------------------------|
| Ambient Operating temperature | -40°C to +80°C (forced air 0.2m/s) |
| Storage temperature | -45°C to +90°C |



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 |

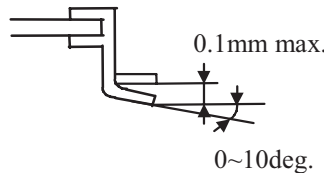
Pin Assignment



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.



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