



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!



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AVO100 Series

100 Watts

Data Sheet

Total Power: 100 Watts
Input Voltage: 36 - 75 V
of Outputs: Single



SPECIAL FEATURES

- 2:1 wide input range
- Optimised for high density, small space applications
- Low ripple and noise
- Fixed switching frequency
- High efficiency
- High capacitive load capability
- Basic insulation system
- Pre-bias start-up capability
- Open-frame structure
- Output overcurrent protection

SAFETY

- UL, cUL: UL60950
- TUV/CE: IEC/EN60950

Electrical Specifications

Input	
Input range	36 - 75 VDC
Efficiency ²	92.8% @ 5 V
Output	
Voltage tolerance	+/-1.5%
Line regulation	3.3 V: 0.3%; Others: 0.1%
Load regulation	3.3 V: 0.6%; 5 V: 0.2%; Others: 0.1%
Noise/ripple	3.3 Vo: 3.3V: 60 mV; 5V: 90 mV; 5.0 Vo: Others: 75 mV
Overvoltage protection	Auto-restart
Overtemperature protection	
Switching frequency	3.3 V, 5 V: 310 KHz; Others: 210 KHz
Temperature co-efficient	±0.02/°C
Isolation	
I/O isolation	5 V: 2250 VDC; Others: 1500V DC

Environmental Specifications

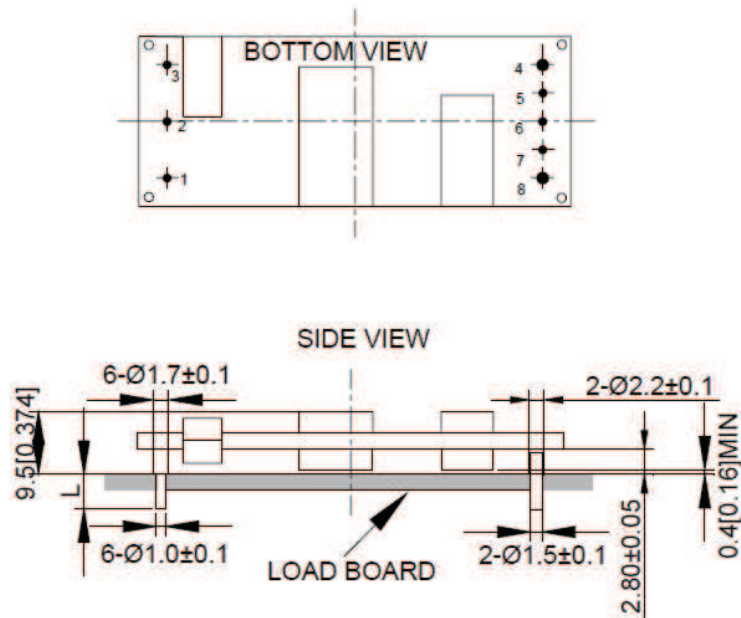
Operating ambient temperature range	-40 °C to +85 °C
Storage temperature	-55 °C to +125 °C
Humidity	5% to 95% (non-condensing)
MTBF	2.5 Million hours
RoHS Compliant	

Ordering Information

Model number	Input voltage	Output voltage	Power
AVO100-48S1V2-6L	36 - 75 Vin	1.2 V @ 50 A	60 W
AVO100-48S1V2B-6L	36 - 75 Vin	1.2 V @ 50 A	60 W
AVO100B-48S1V5-6L	36 - 75 Vin	1.5 V @ 40 A	60 W
AVO100B-48S1V5B-6L	36 - 75 Vin	1.5 V @ 40 A	60 W
AVO100B-48S1V5P-6L	36 - 75 Vin	1.5 V @ 40 A	60 W
AVO100B-48S1V5PB-6L	36 - 75 Vin	1.5 V @ 40 A	60 W
AVO100-48S1V8-6L	36 - 75 Vin	1.8 V @ 40 A	72 W
AVO100-48S1V8B-6L	36 - 75 Vin	1.8 V @ 40 A	72 W
AVO100-48S1V8P-6L	36 - 75 Vin	1.8 V @ 40 A	72 W
AVO100-48S1V8PB-6L	36 - 75 Vin	1.8 V @ 40 A	72 W
AVO100-48S2V5-6L	36 - 75 Vin	2.5 V @ 35 A	87.5 W
AVO100-48S2V5B-6L	36 - 75 Vin	2.5 V @ 35 A	87.5 W
AVO100-48S2V5P-6L	36 - 75 Vin	2.5 V @ 35 A	87.5 W
AVO100-48S2V5PB-6L	36 - 75 Vin	2.5 V @ 35 A	87.5 W
AVO100B-48S3V3-6L	36 - 75 Vin	3.3 V @ 30 A	99 W
AVO100B-48S3V3SL	36 - 75 Vin	3.3 V @ 30 A	99 W
AVO100C-48S3V3B-4L	36 - 75 Vin	3.3 V @ 30 A	99 W
AVO100C-48S3V3PB-4L	36 - 75 Vin	3.3 V @ 30 A	99 W
AVO100-48S05-6L	36 - 75 Vin	5 V @ 20 A	100 W
AVO100-48S05B-6L	36 - 75 Vin	5 V @ 20 A	100 W
AVO100-48S05P-6L	36 - 75 Vin	5 V @ 20 A	100 W
AVO100-48S05PB-6L	36 - 75 Vin	5 V @ 20 A	100 W
AVO100-48S05SL	36 - 75 Vin	5 V @ 20 A	100 W

- Standard version is negative enable
- "-6" = 3.8 mm pin length
- "-4" = 4.8 mm pin length
- "-P" = Positive enable
- "-S" = Surface mount, tray package
- "-L" = RoHS 6 compliance
- "-B" = Baseplate

Mechanical Drawings



UNIT: mm[inch] BOTTOM VIEW: pin on upside
 TOLERANCE: X.Xmm±0.5mm[X.X in.±0.02in.]
 X.XXmm±0.25mm[X.XX in.±0.01in.]

Pin Assignments

Pin #	Function
1	+V in
2	Enable
3	-V in
4	-V out
5	-Sense
6	Trim
7	+Sense
8	+V out

Notes:

1. All specifications are subject to change without notice. Mechanical drawings are for reference only.
2. Warranty: 2 years
3. Label and logo appearance may vary from what is shown on mechanical drawings.

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