

AVD75 Series

75 Watts

Data Sheet

Total Power: 75 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
- Pre-bias start-up capability
- Basic insulation system
- Through hole or SMT termination
- Openframe structure with baseplate option
- Two year warranty

SAFETY

- UL, cUL: UL/CSA62368
- TUV/CE: IEC/EN62368

Electrical Specifications

Input	
Input range	36 - 75 Vdc
Efficiency	92% @ 3.3 V; 84% @ 1.2 V
Output	
Voltage tolerance	+/-1.5%
Line regulation	0.2%
Load regulation	Single output: 0.5% @ 3.3 V; 0.25% @ 1.2 V
Noise/ripple	3.3 Vo: 70 mV 1.2Vo: 45 mV
Over voltage protection Over temperature protection	Auto-restart
Switching frequency	1.2V: 270 KHz, 3.3V: 250 KHz
Temperature coefficient	±0.02 /°C
Isolation	
I/O isolation:	1500 Vdc min.

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 Million hours
RoHS Compliant	

Ordering Information

Model number	Input voltage	Output voltage	Power
AVD75-48S3V3-6L	36 - 75 Vin	3.3 V @ 20 A	66 W
AVD75-48S3V3P-6L	36 - 75 Vin	3.3 V @ 20 A	66 W
AVD75-48S3V3B-6L	36 - 75 Vin	3.3 V @ 20 A	66 W
AVD75-48S3V3PB-6L	36 - 75 Vin	3.3 V @ 20 A	66 W
AVD75-48S1V2TL	36 - 75 Vin	1.2 V @ 25 A	30 W
AVD75-48S1V2-6L	36 - 75 Vin	1.2 V @ 25 A	30 W
AVD75-48S1V2B-6L	36 - 75 Vin	1.2 V @ 25 A	30 W

Notes:

Standard version is negative enable

-6 = 3.8 mm pin length

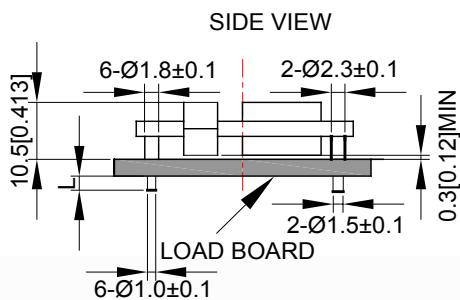
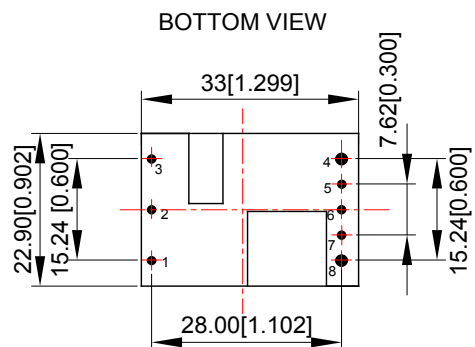
-T = Surface mount, reel tape package

-S = Surface mount, tray package

-L = RoHS 6 compliance

-P = Positive enable

Mechanical Drawings



Notes:

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

UNIT: mm[inch]

BOTTOM VIEW: pin on upside

TOLERANCE: X.Xmm±0.5mm[X.XX in.±0.02in.]

X.XXmm±0.25mm[X.XXX 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

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