

## AVD50 Series

50 Watts

### Data Sheet

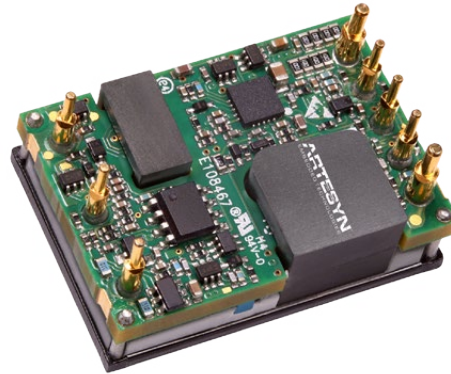
**Total Power:** 50 Watts  
**Input Voltage:** 36 - 75V  
**# of Outputs:** Single

### 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
- Two year warranty

### SAFETY

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



### Electrical Specifications

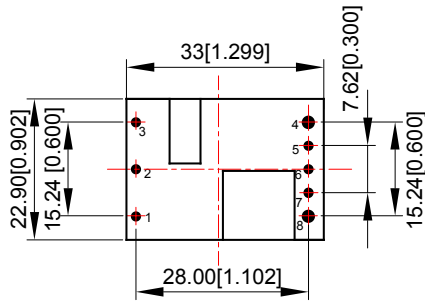
Input	
Input range	36 - 75 Vdc
Efficiency	90.5%
Output	
Maximum power	±2.0% @ 5 V; +/-1.5% @ 3.3 V
Line regulation	0.5%
Load regulation	Single output: 0.5%
Noise/ripple	3.3 Vo: 70 mV 5.0 Vo: 50 mV
Over voltage protection Over temperature protection	Auto-restart
Switching frequency	3.3 V: 420 KHz, 5 V: 250 KHz
Temperature co-efficient	±0.02 /°C
Isolation	
I/O isolation	1500 Vdc min.

### Environmental Specifications

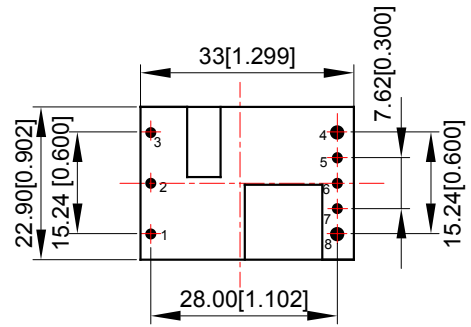
Operating ambient temperature range	-40 °C to +85 °C
Storage temperature	-55 °C to +125 °C
Humidity	5% to 95% (non-condensing)
MTBF	2 Million hours
RoHS Compliant	

Mechanical Drawings

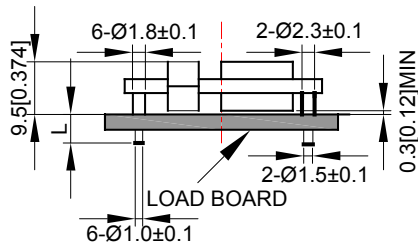
AVD50 BOTTOM VIEW



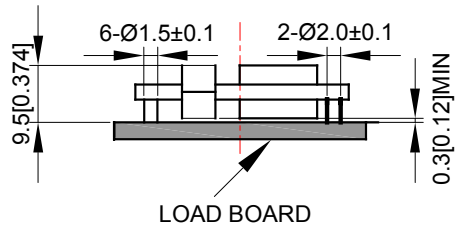
TL (Surface Mount) BOTTOM VIEW



SIDE VIEW



SIDE VIEW



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.

### Ordering Information

Model number	Input voltage	Output voltage	Power
AVD50-48S05-6L	36 - 75 Vin	5 V @ 10 A	50 W
AVD50-48S05P-6L	36 - 75 Vin	5 V @ 10 A	50 W
AVD50-48S05SL	36 - 75 Vin	5 V @ 10 A	50 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

### 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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