AM1PS-JZ

DIP8 Package

The AM1PS-JZ is a 1W DIP8 DC/DC converter that offers great cost savings thanks to an improved manufacturing process. It also features excellent reliability and performance while offering a standard input voltage range of 5-24VDC as well as an output voltage of 3.3-24V. This compact DIP8 design will surely benefit your new system design.

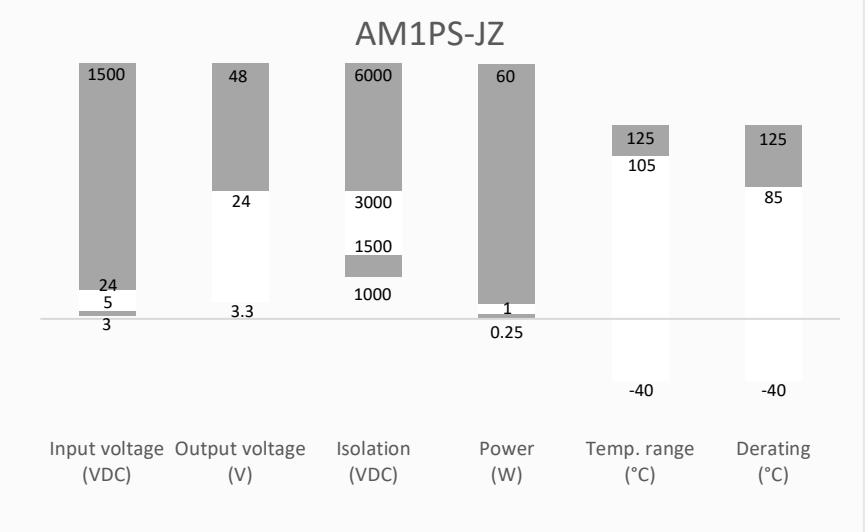
This new series offers great operating temperatures, from -40 to 105°C with full power up to 85°C. Also, an isolation of 1500 or 3000VDC for improved reliability and system safety as well as a great 3,500,000h MTBF come standard.

The AM1PS-JZ is suitable for instrumentation, industrial controls, communication and IoT applications.

Features

- High I/O Isolation of 1500/3000VDC
- Continuous Short circuit protection
- Operating Temp: -40 °C to +105 °C
- Industry standard DIP8 pin-out
- Efficiency up to 81%
- Unregulated output

Summary



Training

Product Training Video (click to open)

Press Release

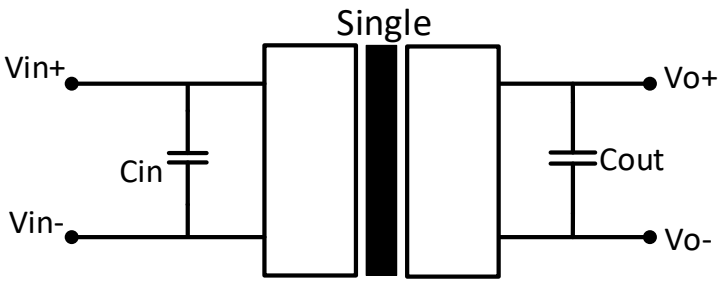
Coming Soon!

Application Notes

Applications

IoT Industrial Telecom Portable Equipment

Typical application circuit

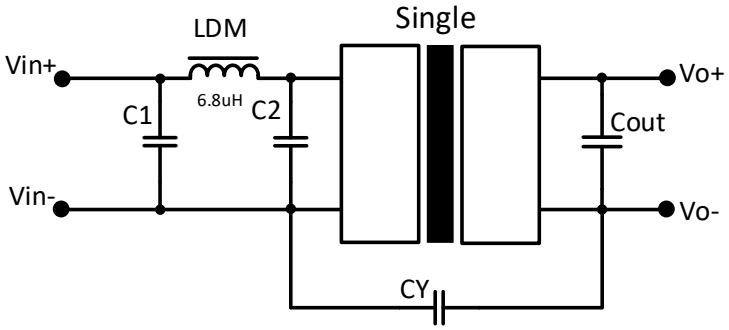


Vin	Cin
5V	4.7μF
12V	2.2μF
24V	1μF

Single output models	
Vout	Cout
3.3/5V	10μF
9/12V	2.2μF
15/24V	1μF

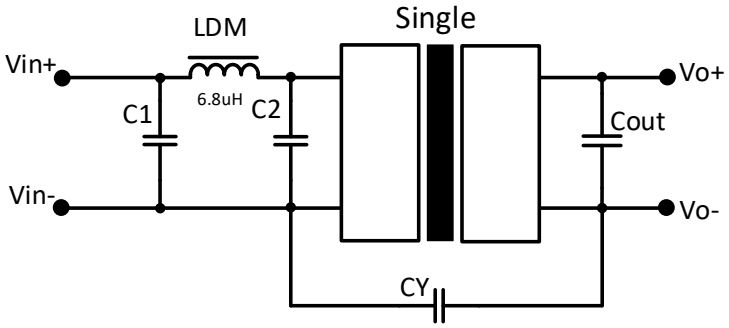
Recommended EMI circuit

5Vin models



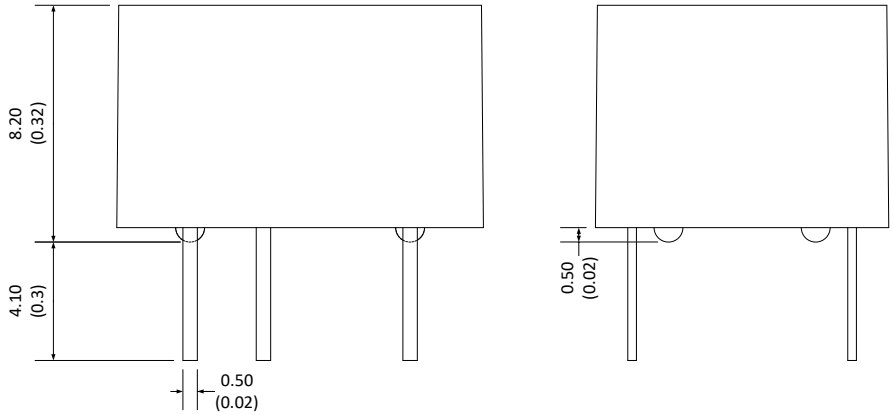
Vout	C1/C2	CY
3.3/5/9V	4.7μF/25V	-
12/15/24V	4.7μF/25V	1nF/4kVdc

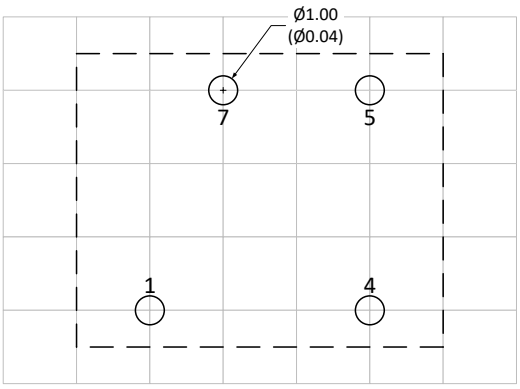
12/24Vin models



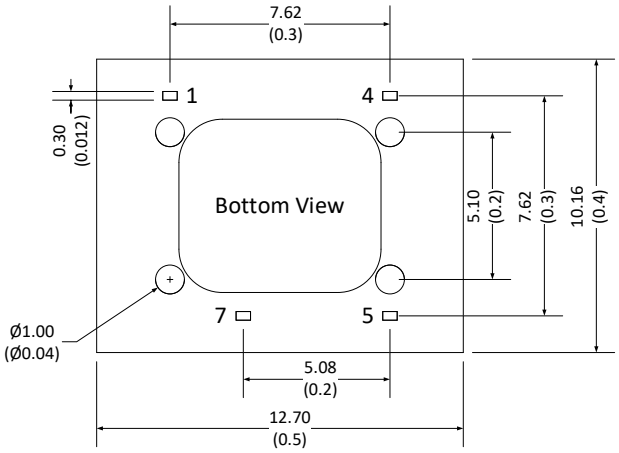
Isolation	C1/C2	CY
1.5KV	4.7μF/50V	270pF/2kVdc
3KV	4.7μF/50V	270pF/3kVdc

Dimensions





Grid size: 2.54*2.54mm



Note:
Unit: mm(inch)
General tolerance: ±0.25 (0.01)
Pin tolerance: ±0.1 (0.004)

Pin Out Specifications	
Pin	**Single output**
1	-V Input
4	+V Input
5	+V Output
7	-V Output

NOTE: 1. Datasheets are updated as needed and as such, specifications are subject to change without notice. Once printed or downloaded, datasheets are no longer controlled by Aimtec; refer to www.aimtec.com for the most current product specifications. **2.** Product labels shown, including safety agency certifications on labels, may vary based on the date manufactured. **3.** Mechanical drawings and specifications are for reference only. **4.** All specifications are measured at an ambient temperature of 25°C, humidity<75%, nominal input voltage and at rated output load unless otherwise specified. **5.** Aimtec may not have conducted destructive testing or chemical analysis on all internal components and chemicals at the time of publishing this document. CAS numbers and other limited information are considered proprietary and may not be available for release. **6.** This product is not designed for use in critical life support systems, equipment used in hazardous environments, nuclear control systems or other such applications which necessitate specific safety and regulatory standards other the ones listed in this datasheet. **7.** Warranty is in accordance with Aimtec's standard Terms of Sale available at www.aimtec.com.