

Datasheet

AC-DC Converter A4DB series



Product Detail

RS Pro switch mode power supply supports a wide input voltage range of up to 70%, high power density and low loss. Typical applications for the PCB mount AC/DC power supply induced industrial and office equipment. The 1-output power rating, delivers 3.3V output voltage and 1200mA output current.

This embedded Switch Mode Power Supply based on UL60950, IEC60950, EN60950, EN55022 Class B and EN55024 standards.

Features and Benefits

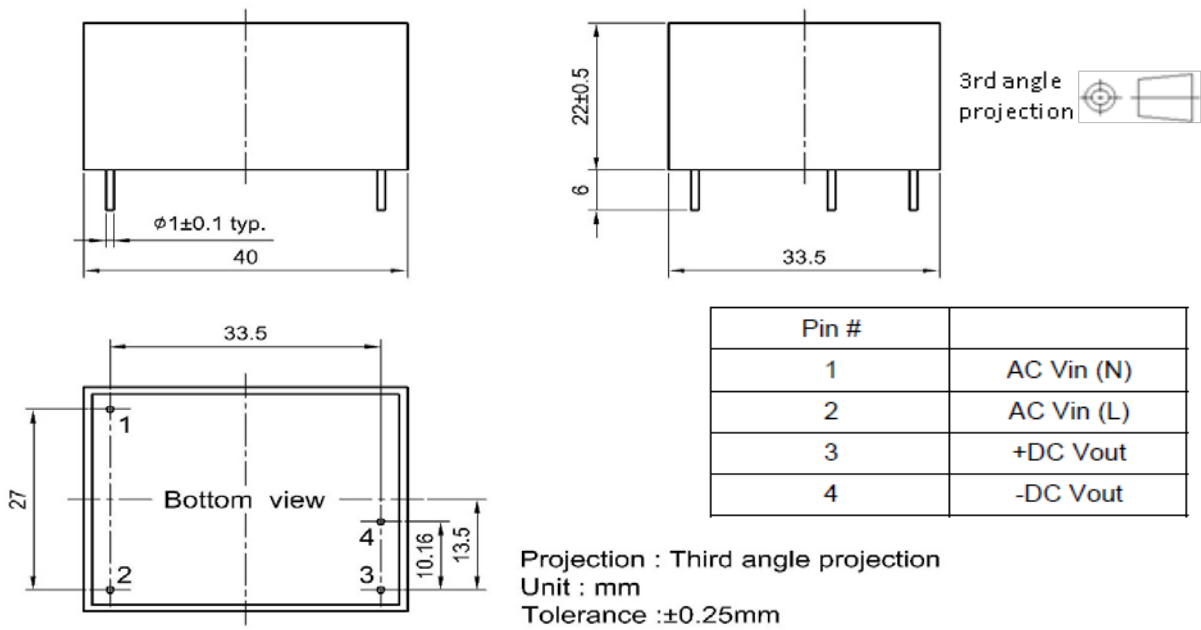
- Universal Full Input 90 – 264VAC
- 4 Watt Power
- Short Circuit Protect (SCP) and Over Voltage protection (OVP)
- Built-in Fusible Resistor
- 3.75kVAC Isolation
- Operating Temperature Range from -25°C to +85°C
- No Load Power Consumption 50mW Typ.

Specifications:

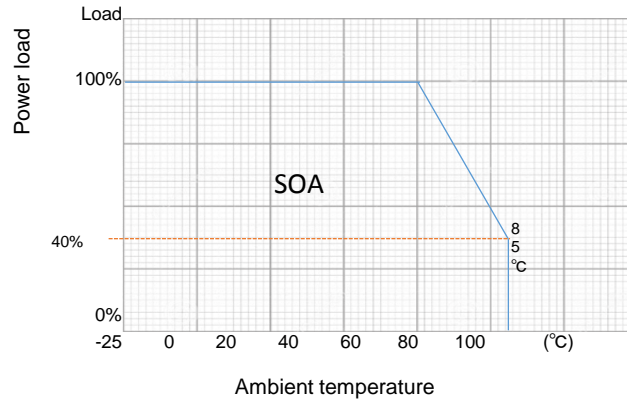
	A4DB-AC3.3	A4DB-AC05
Depth	22mm	
Efficiency	70%	74%
Humidity	95% RH Max.	
Input Voltage	90 – 264Vac	
Length	40mm	
Line Regulation	± 1.5%	
Load Regulation	± 2% (10-100%Load)	
Maximum Temperature	+85°C	
Minimum Temperature	-25°C	
MTBF	1500000h @25°C	
Number of Outputs	1	
Output Current	1200mA	800mA
Output Voltage	3.3Vdc	5Vdc
Over Voltage Protection	Zener Diode Clamp	
Package Type	Encapsulated	
Power Rating	4W	
Ripple and Noise	130mVpp Max. 100mVpp Typ.	
Shot-Circuit Protection	Automatic Restart, Continuous	
Storage Temperature	-25°C to +85°C	
Weight	38g Typ.	
Width	33.5mm	
Frequency Rating	80kHz Typ.	
Safety	Based on UL60950, EN60950	

1. All specifications in this datasheet are measured at normal input and ambient temperature of 25° C.
2. The “output voltage tolerance” includes initial voltage accuracy, thermal drift, line regulation and load regulation at rated input voltage and load conditions
3. MTBF* are tested base on MIL-HDBK-217F

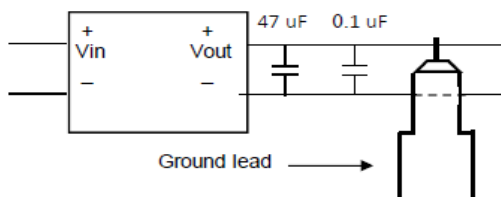
Mechanical Specification



Derating Curve



Application Note



“The Ripple and Noise” is the maximum peak to peak voltage value measured at the output with a 20MHz bandwidth, At rated line voltage at full load; And with a 47uF low ESR electrolytic capacitor in parallel with a 0.1uF ceramic capacitor across the output.