



## データシート

Japanese

### AC-DCコンバータ1W、基板実装、密閉型、A1Dシリーズ



#### 詳細情報

A1Dシリーズ電源は、絶縁耐圧3kVの絶縁耐力を備えた小さな電源です。

産業、計器及び民生用途に最適です。

ワイド入力電圧範囲：90 - 264Vac, 120 - 370Vdc

AC/DC入力対応（同じ端子からの入力）

ワイド動作温度範囲：-25°C - 80°C (Derating不要)

小型、低リップル及び低ノイズ

低スタンバイ電力：30mW Typ.

過出力電流保護、短絡保護

安全規格：UL60950, EN60950, IEC60950に準拠

EMC：EN55022 (Class B), EN55024に準拠

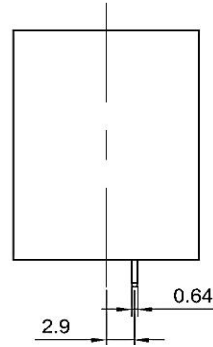
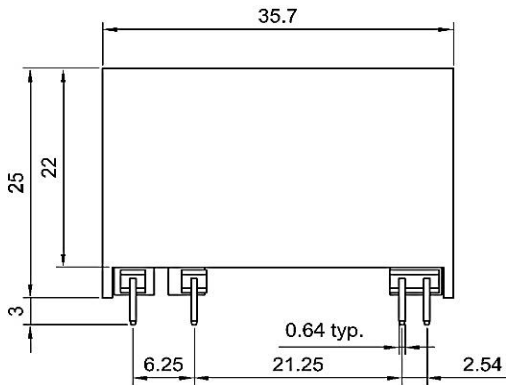
## Specifications:

### **RS Pro 1W, 1 Output, Embedded Switch Mode Power Supply (SMPS), 3.3V / 300mA, 5V / 200mA**

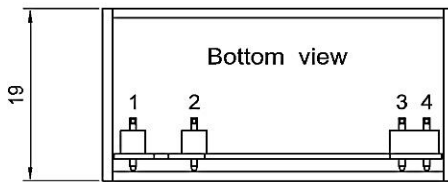
	A1D-AC3.3	A1D-AC05
Case Material	UL94V-O	
Depth	25mm	
Efficiency	65%	68%
Humidity	95% RH Max.	
Input Voltage	90 – 264Vac, 120 – 370Vdc	
Isolation Voltage	3kVac / 1minute	
Leakage current (Output)	0.25mA Max.	
Length	35mm	
Line Regulation	±2%	
Load Regulation	±6% (2-100%Load)	
Maximum Temperature	+85°C	
Minimum Temperature	-25°C	
MTBF	2000000h@25°C	
Number od Outputs	1	
Output Current	300mA	200mA
Output Voltage	3.3Vdc	5Vdc
Package Type	Encapsulated	
Potting Material	Silicone	
Power Rating	1W	
Ripple and Noise	150mVpp	100mVpp
Short-circuit Protection	Hiccup mode, Automatics recovery	
Storage Temperature	-40°C to +100°C	
Weight	27.5g Typ.	
Width	19mm	
Frequency Rating	55kHz Typ.	
Safety	Based on UL60950, EN60950	
EMC	Based on EN55022 Class B and EN55024	

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



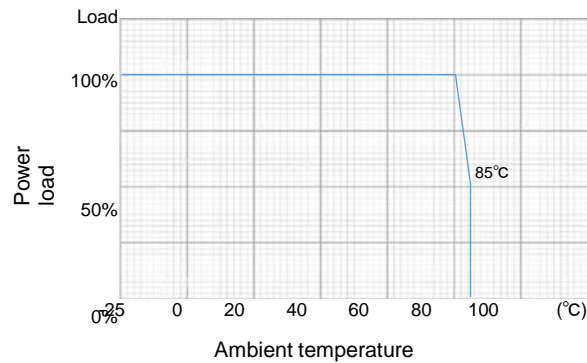
3rd angle projection



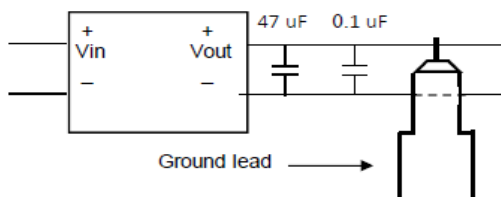
Pin #	
1	AC Vin (L)
2	AC Vin (N)
3	+DC Vout
4	-DC Vout

Unit : mm  
Tolerance :  $\pm 0.5\text{mm}$

## 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.