



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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#### Data Sheet

**Total Power:** 3 W  
**Input Voltage:** 5, 12, 24, 48 V  
**# of Outputs:** Single and Dual

#### SPECIAL FEATURES

- Ultra compact DIP package (14 x 14 x 8.0 mm; 0.55 x 0.55 x 0.31 inches)
- Efficiency up to 87%
- I/O-isolation 1500 VDC
- Wide 2:1 input range
- Operating temperature range -40 °C to +85 °C (with derating)
- Three year product warranty
- UL/cUL/IEC/EN 60950-1 Safety Approval, CE Mark

#### SAFETY

- cUL/UL 60950-1 recognition
- CE Mark



#### Electrical Specifications

Input	
Input range	4.5 - 10 Vdc; 9 - 18 Vdc; 18 - 36 Vdc; 36 - 75 Vdc
Efficiency	87% @ 12 Vo
Output	
Voltage tolerance	±1.5%
Line regulation	±0.2%
Load regulation	1.0%
Noise/ripple	70 mV
Overload protection	170% typ of Io max, foldback
Short circuit protection	Continuous, automatic recovery
Switching frequency	100 kHz
Isolation	
I/O isolation	I/O: 1500 Vdc
Insulation resistance	1000 Mohm
Insulation capacitance	100 pF

#### Environmental Specifications

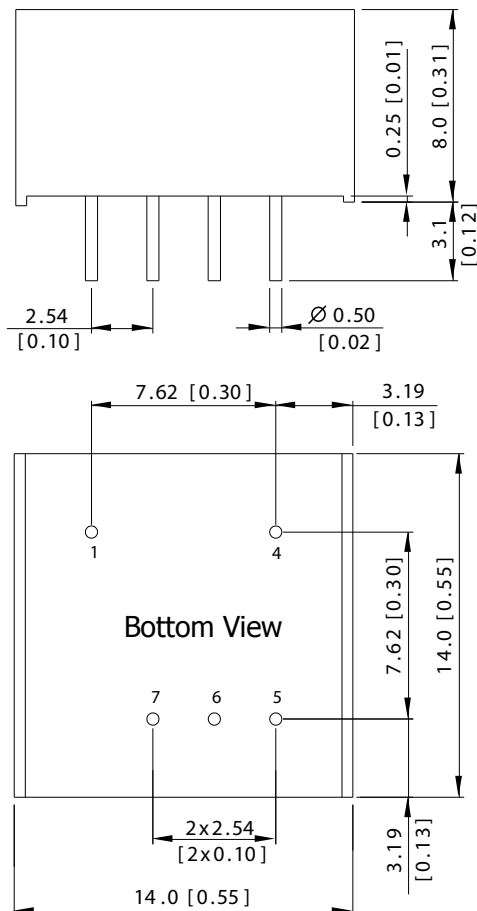
<b>Operating ambient temperature range</b>	-40 °C to +85 °C
<b>Storage temperature</b>	-50 °C to +125 °C
<b>Humidity</b>	5% to 95% non-condensing
<b>MTBF</b>	3.5 Mhrs calculated



## Ordering Information

Part Number	Input Voltage	Output Voltage	Output Current	Efficiency	Power
AYA01F05-L	4.5 - 10 Vdc	3.3 V	0.6 A	79%	2 W
AYA01A05-L	4.5 - 10 Vdc	5 V	0.6 A	81%	3 W
AYA01B05-L	4.5 - 10 Vdc	12 V	0.25 A	85%	3 W
AYA01C05-L	4.5 - 10 Vdc	15 V	0.2 A	85%	3 W
AYA01AA05-L	4.5 - 10 Vdc	±5 V	±0.3 A	82%	3 W
AYA01BB05-L	4.5 - 10 Vdc	±12 V	±0.125 A	84%	3 W
AYA01CC05-L	4.5 - 10 Vdc	±15 V	±0.1 A	85%	3 W
AYA01F12-L	9 - 18 Vdc	3.3 V	0.6 A	80%	2 W
AYA01A12-L	9 - 18 Vdc	5 V	0.6 A	83%	3 W
AYA01B12-L	9 - 18 Vdc	12 V	0.25 A	87%	3 W
AYA01C12-L	9 - 18 Vdc	15 V	0.2 A	87%	3 W
AYA01AA12-L	9 - 18 Vdc	±5 V	±0.3 A	84%	3 W
AYA01BB12-L	9 - 18 Vdc	±12 V	±0.125 A	86%	3 W
AYA01CC12-L	9 - 18 Vdc	±15 V	±0.1 A	87%	3 W
AYA01F24-L	18 - 36 Vdc	3.3 V	0.6 A	80%	2 W
AYA01A24-L	18 - 36 Vdc	5 V	0.6 A	83%	3 W
AYA01B24-L	18 - 36 Vdc	12 V	0.25 A	87%	3 W
AYA01C24-L	18 - 36 Vdc	15 V	0.2 A	87%	3 W
AYA01AA24-L	18 - 36 Vdc	±5 V	±0.3 A	84%	3 W
AYA01BB24-L	18 - 36 Vdc	±12 V	±0.125 A	86%	3 W
AYA01CC24-L	18 - 36 Vdc	±15 V	±0.1 A	87%	3 W
AYA01F48-L	36 - 75 Vdc	3.3 V	0.6 A	79%	2 W
AYA01A48-L	36 - 75 Vdc	5 V	0.6 A	82%	3 W
AYA01B48-L	36 - 75 Vdc	12 V	0.25 A	86%	3 W
AYA01C48-L	36 - 75 Vdc	15 V	0.2 A	86%	3 W
AYA01AA48-L	36 - 75 Vdc	±5 V	±0.3 A	82%	3 W
AYA01BB48-L	36 - 75 Vdc	±12 V	±0.125 A	85%	3 W
AYA01CC48-L	36 - 75 Vdc	±15 V	±0.1 A	85%	3 W

## Mechanical Dimensions



Pin Connections		
Pin	Single Output	Dual Output
1	-Vin	-Vin
4	+Vin	+Vin
5	+Vout	+Vout
6	No pin	Common
7	-Vout	-Vout

- All dimensions in mm (inches)
- Tolerance: X.X±0.5 (X.XX±0.02)  
X.XX±0.25 (X.XXX±0.01)
- Pin diameter  $\varnothing 0.5 \pm 0.05$  (0.02±0.002)

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