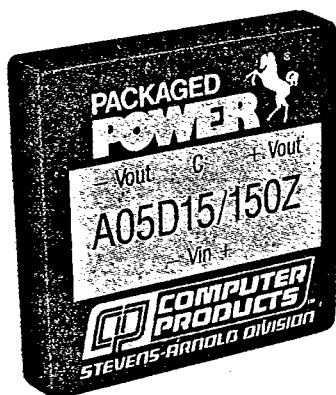


T-57-11



A SERIES Dual Output

- Low Noise
- Linear Regulation
- Low Profile 0.38 Inch High
- Six-Sided Shield
- Pi Input Filter
- Short Circuit Protected

This series of Industry standard 4.5 watt DC/DC converters provides 4.5 watts of clean, well-regulated output power. All 10 dual output models in the A Series offer 500 VDC minimum isolation with only 1.0 mV RMS (40 mV P-P) output ripple and noise. Other premium performance features include line and load regulation of $\pm 0.07\%$, and efficiencies to 69%. All A Series units are housed in a compact 2×2 inches package with low 0.38 inch vertical profile. The copper case provides optimum thermal conductivity, low thermal gradients, and six-sided shielding for EMI/RFI suppression. Noise containment is further enhanced by transformer shielding and a Pi-type input filter to minimize reflected input ripple current. Other important features include: output voltage accuracy within 1%; output short circuit protection; $\pm 0.01\%$ temperature coefficient; and -25°C to $+71^\circ\text{C}$ operating temperature range with no derating.

STOCKED BY YOUR LOCAL DISTRIBUTOR
See list on pages 175 & 176

CP COMPUTER PRODUCTS™
STEVENS-ARNOLD INC.
(617) 268-1170

SPECIFICATIONS

All Specifications Typical at Nominal Line, Full Load and 25°C Unless Otherwise Noted.

OUTPUT SPECIFICATIONS

Voltage Accuracy, + output	$\pm 1.0\%$, max.
Voltage Balance, - output	$\pm 1.0\%$, max.
Ripple and Noise, 20 MHz BW	1 mV RMS, max. 40 mV P-P, max.
Temperature Coefficient	$\pm 0.01\%/\text{ }^\circ\text{C}$, max.
Voltage Stability, 24 Hours	$\pm 0.05\%$, max.
Transient Recovery Time, $\pm 0.1\%$ Error Band	
NL-FL	50 $\mu\text{sec.}$, max.
Short-Circuit Protection - Either Output to Common	
Short-Circuit Current Limit	150% I_{out}

INPUT SPECIFICATIONS

Input Voltage Range	See Table Below
Input Filter	Pi Network
Switching Frequency	20 kHz
Power Restart	Automatic

GENERAL SPECIFICATIONS

Efficiency	See Table
Isolation Voltage	500 VDC, min.
Isolation Resistance	10^9 ohms, min.

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature Range	-25°C to $+71^\circ\text{C}$
Derating	None
Storage Temperature Range	-40°C to $+100^\circ\text{C}$
Case Temp. Rise Above Ambient	$10^\circ\text{C}/\text{watt Diss.}$
Cooling	Free-Air Convection
EMI/RFI	Six-Sided Continuous Metal Case Multiple Transformer Shielding

PHYSICAL SPECIFICATIONS

Weight	3.5 oz. (98 grams)
Case Material	Black Coated Copper with Non-Conductive Base
Mating Socket	MS-Z

Input Voltage Ranges	
Nominal Input	Range
5V	4.75-5.25V ¹
12V	11-13V ¹
24V	20-28V
28V	24-32V
48V	42-56V

NOTE:

1. Input voltage range may be increased to $\pm 10\%$ with a reduced load (± 120 mA).

TWO-YEAR WARRANTY



T-57-11

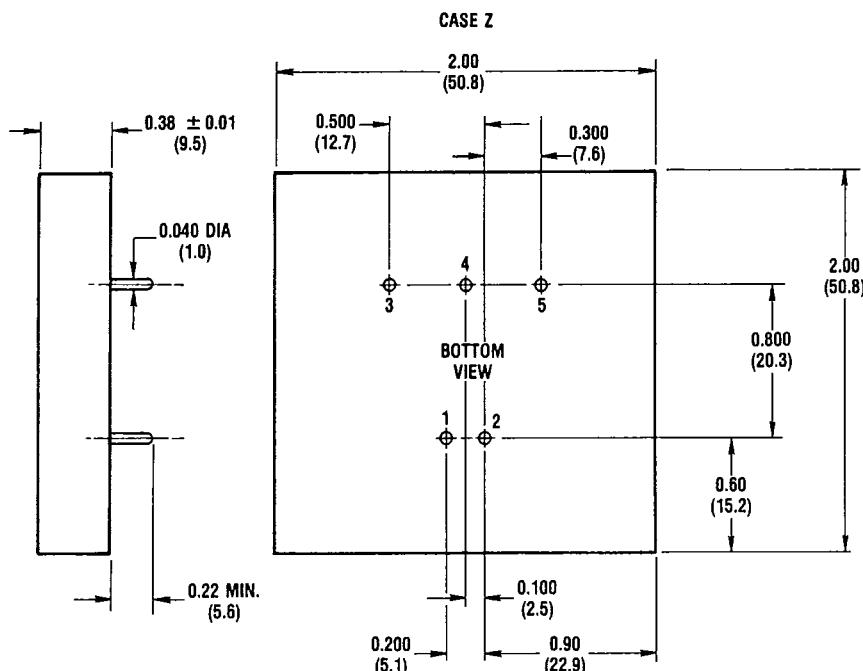
4.5 Watt DC/DC Converters

INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		% EFF	REGULATION ¹		CASE	MODEL NUMBER
			NO LOAD	FULL LOAD		LINE ²	LOAD ³		
5 VDC 5 VDC	±12 VDC	± 150 mA	150 mA	1150 mA	63	± 0.07%	± 0.07%	Z	A05D12/150Z
	±15 VDC	± 150 mA	150 mA	1350 mA	67	± 0.07%	± 0.07%		A05D15/150Z
12 VDC 12 VDC	±12 VDC	± 150 mA	50 mA	460 mA	65	± 0.07%	± 0.07%	Z	A12D12/150Z
	±15 VDC	± 150 mA	50 mA	540 mA	69	± 0.07%	± 0.07%		A12D15/150Z
24 VDC 24 VDC	±12 VDC	± 150 mA	25 mA	260 mA	58	± 0.07%	± 0.07%	Z	A24D12/150Z
	±15 VDC	± 150 mA	25 mA	290 mA	65	± 0.07%	± 0.07%		A24D15/150Z
28 VDC 28 VDC	±12 VDC	± 150 mA	25 mA	215 mA	60	± 0.07%	± 0.07%	Z	A28D12/150Z
	±15 VDC	± 150 mA	25 mA	250 mA	64	± 0.07%	± 0.07%		A28D15/150Z
48 VDC 48 VDC	±12 VDC	± 150 mA	20 mA	125 mA	60	± 0.07%	± 0.07%	Z	A48D12/150Z
	±15 VDC	± 150 mA	20 mA	135 mA	69	± 0.07%	± 0.07%		A48D15/150Z

NOTES: 1. Maximum.

Other Input/Output Combinations Available. Consult Factory.

2. Measured from High Line to Low Line.
 3. Measured from Full Load to No Load.



ALL DIMENSIONS IN INCHES (mm)

Pin Connections	
Pin	Function
1	+ Input
2	- Input
3	+ Output
4	Common
5	- Output

Tolerance .xx = ± 0.04
 .xxx = ± 0.005

NOTE: Case connected to output common for all input voltages except 48V which is connected to + input