

T-57-11

**NEW!**

AF SERIES

Single and Dual Output

- Hybrid/SMD
- Low Thermal Resistance
- 6 Watts/Cubic Inch
- Low Noise 40 mV P-P
- 50% Smaller Footprint
- Industry Standard Pin Out

The A and F Series of DC/DC converters provided 4.5 to 5 watts of clean, well regulated output power with premium features and performance. Using this criterion as a basis, the new AF Series combines the reliability of the time-proven circuitry of our "A" and "F" Series, and state of the art technology of surface mounted devices. This combination improves thermal management, reduces size to $1.0 \times 2.0 \times 0.375$ inches and increases power density to 6 watts per cubic inch. By utilizing industry standard pin configuration, the AF Series offers a direct, cost reduced replacement with an extra value of 50% reduction in board area.

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



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, Single Output.....	± 2%, max.
Dual, +Output	± 2%, max.
Voltage Balance, Dual, -Output.....	± 2%, max.
Temperature Coefficient	± 0.03%, max.
Voltage Stability, 24 hrs.	± 0.01%, max.
Transient Recovery Time ± 1% Error Band	
25% Load Change	50 μsec., max.
Short Circuit Protection	
Output to Common	Continuous
Output plus to minus	10 sec., max.
Ripple and Noise, 20 MHz	3 mV RMS, max.
	40 mV P-P, max.

INPUT SPECIFICATIONS

Input Range, 5V	4.65V-5.25V
12V	10.8V-13.2VDC
Input Filter	Low ESR Capacitor
Reverse Voltage Protection	None

GENERAL SPECIFICATIONS

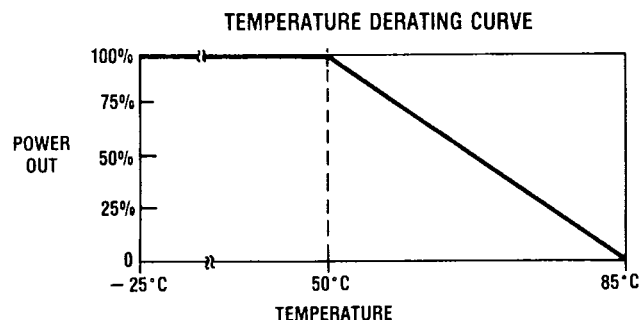
Efficiency	See Table
Isolation Voltage.....	500 VDC, min.
Isolation Resistance.....	10^9 ohms, min.
Switching Frequency	20 kHz, min.

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature Range	0°C to + 50°C
Derating	See Curve Below
Storage Temperature Range ...	-40°C to +100°C
Cooling.....	Free-Air Convection

PHYSICAL SPECIFICATIONS

Weight	1 oz. (28.4 grams)
Case Material	Non-Conductive Black Plastic



TWO-YEAR WARRANTY



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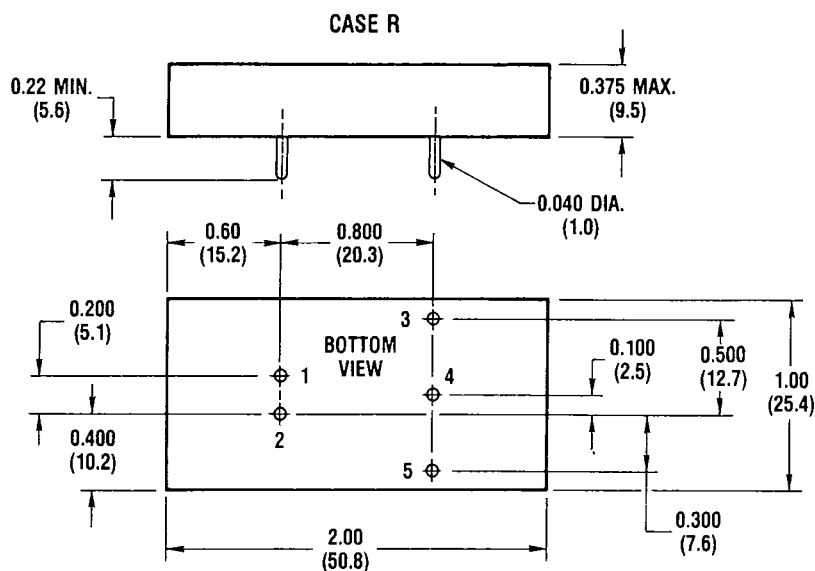
4.5 Watt DC/DC Converters

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	750 mA	75 mA	1210 mA	62	±1.0%	±0.5%	R	AF05S05/750R
5 VDC	12 VDC	375 mA	75 mA	1360 mA	66	±1.0%	±0.5%	R	AF05S12/375R
5 VDC	15 VDC	300 mA	75 mA	1360 mA	66	±1.0%	±0.5%	R	AF05S15/300R
5 VDC	±12 VDC	150 mA	75 mA	1090 mA	66	±1.0%	±0.5%	R	AF05D12/150R
5 VDC	±15 VDC	150 mA	75 mA	1360 mA	66	±1.0%	±0.5%	R	AF05D15/150R
12 VDC	5 VDC	750 mA	31 mA	504 mA	62	±1.0%	±0.5%	R	AF12S05/750R
12 VDC	12 VDC	375 mA	31 mA	568 mA	66	±1.0%	±0.5%	R	AF12S12/375R
12 VDC	15 VDC	300 mA	31 mA	568 mA	66	±1.0%	±0.5%	R	AF12S15/300R
12 VDC	±12 VDC	150 mA	31 mA	454 mA	66	±1.0%	±0.5%	R	AF12D12/150R
12 VDC	±15 VDC	150 mA	31 mA	568 mA	66	±1.0%	±0.5%	R	AF12D15/150R

NOTES: 1. Maximum.

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	
	Single	Dual
1	+ Input	+ Input
2	- Input	- Input
3	+ Output	+ Output
4	No Pin	Common
5	- Output	- Output

 Tolerance .xx = ±0.02
 .xxx = ±0.005