

30 WATT JC/JW SERIES

FEATURES

Low output noise

Constant frequency

Industry-standard pinout

Metal case

2:1 input voltage range

Remote sense

Remote on/off

High efficiency typ. 82%

Output voltage adjustable (60% to 110%)

UL, CSA, VDE recognized

Within FCC Class A radiated limits

Calculated MTBF > 4 million hours



The JC/JW modules give you AT&T's advanced product features with an industry-standard pinout. Our highly reliable modules have lower input and output noise than the competition, a constant operating frequency, and a wide operating temperature range.

These modules can meet your needs in a 2.40 inches long, 2.28 inches wide, 0.50 inch high package. The case has four through-threaded holes for versatile mounting and was designed to incorporate a heat sink for extended high-temperature operations.

Special features of this series include remote on/off, output sense leads (both negative and positive), and a trim feature that allows you to adjust the output from 60% to 110% of V_o nominal.

SELECTION CHART

Input Vdc Output Vdc

18-36 = **C** 5 = **A**

36-72 = **W** 12 = **B**

15 = **C**

2 = **D**

3.3 = **F**

Part No.

J ☐ 0 3 0 ☐

For output voltages between 2 V and 24 V, consult factory.

TYPICAL INPUT CHARACTERISTICS

| | |
|--------------------------|----------------------|
| Reflected Ripple Current | 25 mA _{p-p} |
| Ripple Rejection | 60 dB |

TYPICAL OUTPUT CHARACTERISTICS

| | |
|-----------------------------|--|
| Set Point Accuracy | ±1% |
| Load Regulation | ±0.5% |
| Line Regulation | ±0.02% |
| Output Temperature Drift | ±0.01%/°C |
| Output Ripple | |
| 5 V Output | 100 mV _{p-p} , 10 mV _{rms} |
| 12 V Output | 100 mV _{p-p} , 15 mV _{rms} |
| 15 V Output | 150 mV _{p-p} , 20 mV _{rms} |
| Overvoltage Clamp Set Point | 120% |
| Current Limit Inception | 120% |
| Short Circuit Current | 180% |
| Efficiency | 82% |

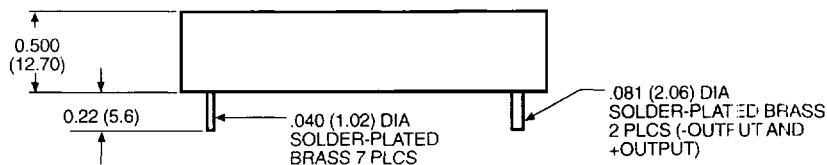
OPTIONS

Choice of on/off configuration – positive and negative logic
Heat sink available for extended operating temperature (page 58)

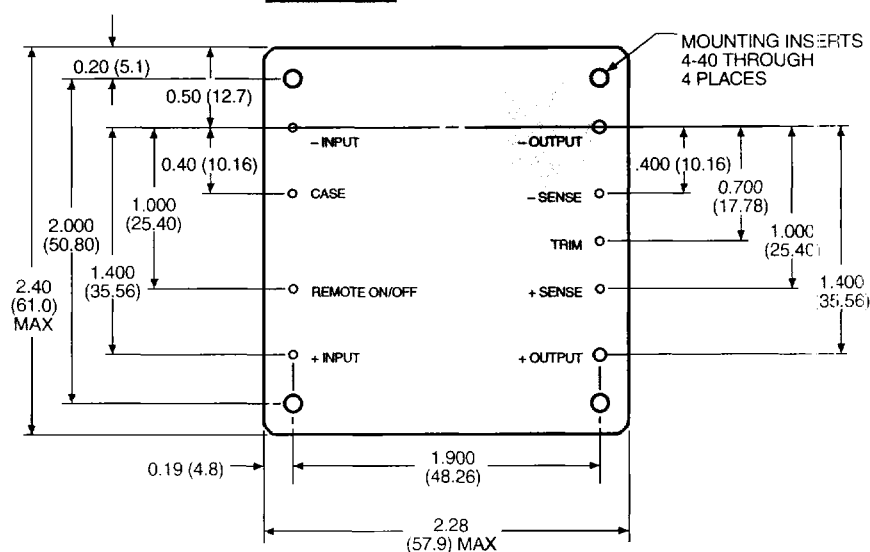
PRODUCT ATTRIBUTES

| | |
|-----------------------------|---------------------------|
| Isolation | |
| Voltage | 500 V _{dc} |
| Capacitance | 0.02 µF |
| Resistance | >10 MΩ |
| Operating Case Temp. | -40° to 100°C |
| Storage Temperature | -40° to 110°C |
| Maximum Weight | 3.5 oz (99 grams) |
| Case Dimensions | 2.40" L, 2.28" W, 0.50" H |
| Calculated MTBF (40°C case) | 4.31 million hrs. |

Side View



Bottom View



Pins are solder-plated brass, 0.040 (1.02) DIA.
Dimensions are in inches and (millimeters).

Compare to other 30 watt modules

This module provides:

- Lower input and output noise
- Superior case design for grounding and mounting heat sink

For more specific technical information, call 1-800-526-7819.

For product-specific data sheet and application/technical notes, call 1-800-372-2447.

• **Remote On/Off** Tech. Note AP91-036EPS

• **Thermal Energy Management** Tech. Note TN94-007EPS