

APPLIED CONCEPTS INC.

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CCFL INVERTER

(For Multiple Tube Applications)

The AC5-12-1151 is designed to power 10 CCFL's to a nominal power level of 35 watts.

Intensity control (0-100%) is accomplished by the user providing a variable dc level of 0V(off) to 5V(full-on) at pin 5 of CON1.

Enable control is accomplished at pin 3 of CON1 (0V=off, 5V=on).

All outputs are open and short circuit protected.

This product is intended for use with 20.1 inch NEC Part Number NL128102AC31-01.

Specifications:

Vin = +12V +/- 10%

CCFL strike voltage = 1800Vrms @ Vin=12V

CCFL tube current = 5.0mA/tube @ 100% intensity/Vin=12V)

Recommended CCFL sustaining voltage = 625Vrms - 775Vrms

Nominal tube current frequency = 37khz +/- 10%

Nominal pwm frequency = 98Hz +/- 3%

Pwm duty cycle range = 0 to 100%

Average electrical efficiency >90%

External PWM signal input control via enable pin

Output PWM sync signal @ pin 6 of CON1 (for master/slave operation).

Additional control capability:*

Supports multiple units ie:Master/Slave(s)

Synchronization to display frame-rate

Low power sleep-mode and soft-start

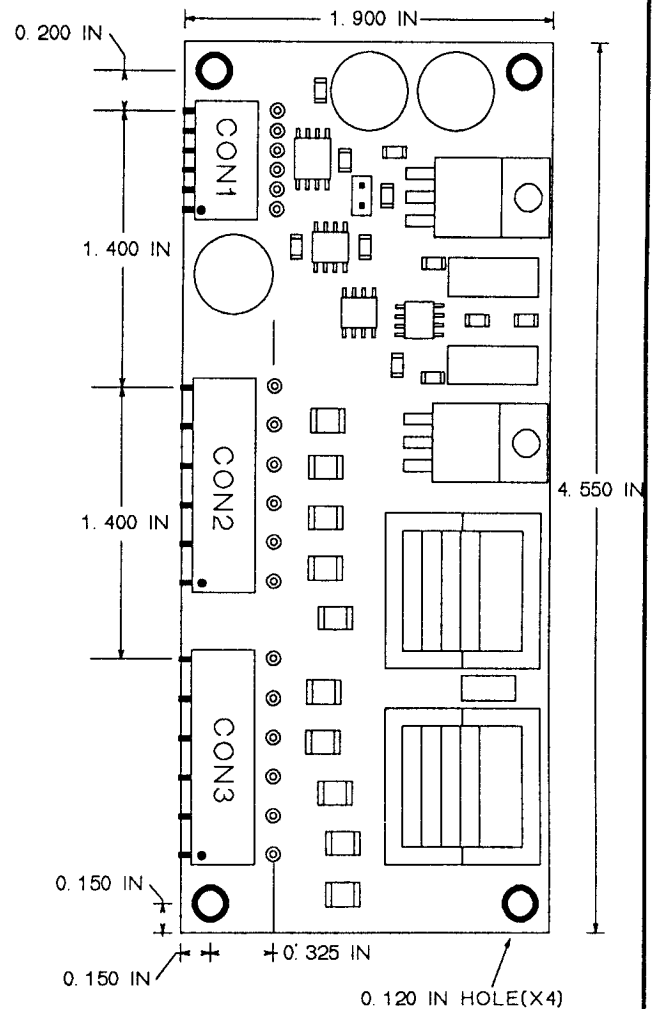
UL 1950 Recognized (File No. E201813)

* Please contact factory for information

AC5-12-1151

PRODUCT DATA SHEET

1/15/02



PROFILE = 0.575 IN

CON1
MOLEX 22-28-1063

PIN #

1	+12V
2	GND
3	ENABLE
4	LOGIC HI
5	VCNTL
6	PWM OUT

CON2(CON3)
MOLEX 22-28-1113

PIN #

1	CCFL 5(10)
2	NC
3	CCFL 4(9)
4	NC
5	CCFL 3(8)
6	NC
7	CCFL 2(7)
8	NC
9	CCFL 1(6)
10	NC
11	CCFL COMMON