

**APPLIED
CONCEPTS INC.**

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AC5-12-1115

PRELIMINARY DATA SHEET

04/06/00

CCFL INVERTER

(For Multiple Tube Applications)

The AC5-12-1115 is designed to power 10 CCFL's to a nominal power level of 38.4 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 NEC Part Number NL128102AC31-01

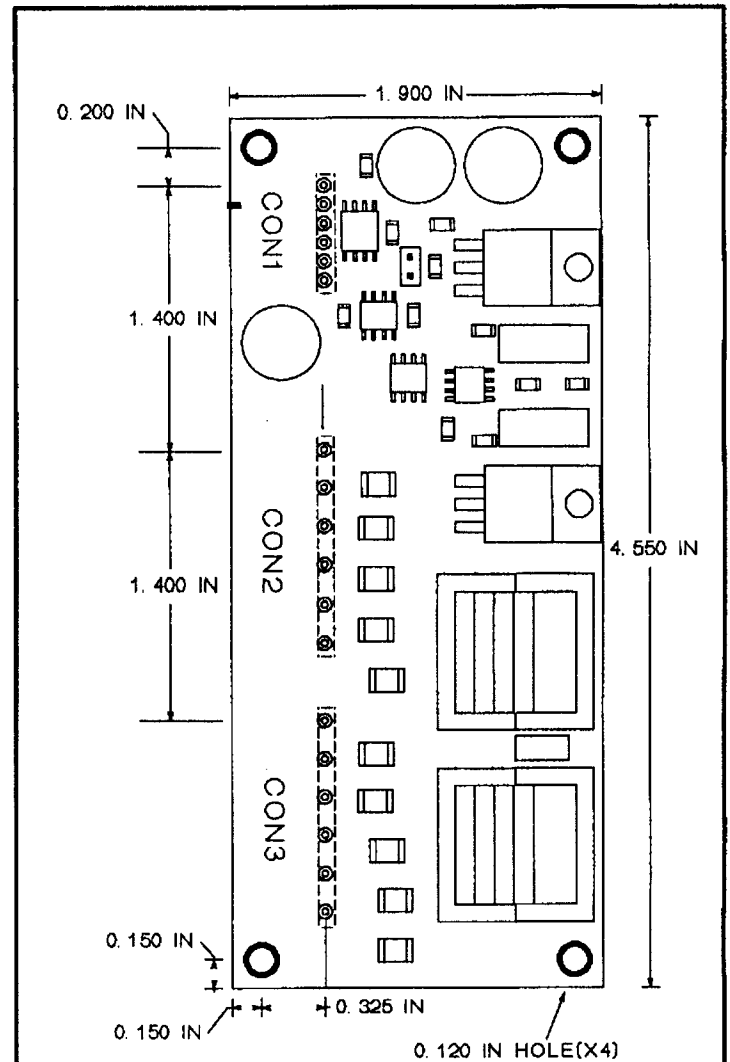
Specifications:

- Vin = +12V +/- 10%
- CCFL strike voltage = 1800Vrms @ Vin=12V
- CCFL tube current =5 mA/tube @ 100% intensity/Vin=12V
- Recommended CCFL sustaining voltage =700Vrms - 800Vrms
- Nominal tube current frequency =28khz +/- 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

Additional control capability:*

- Supports multiple units i.e: Master/Slave(s)
- Synchronization to display frame-rate
- Low power sleep-mode and soft-start
- UL 1950 approval pending

* Please contact factory for information



PROFILE = 0.575 IN

CON1 MOLEX 22-28-4060
CON2(CON3) MOUNTED ON BACK OF PCB
MOLEX 22-28-4110

PIN #		PIN #	
1	+12V	1	CCFL 5(10)
2	GND	2	NC
3	ENABLE	3	CCFL 4(9)
4	LOGIC HI	4	NC
5	VCNTL	5	CCFL 3(8)
6	PWM OUT	6	NC
		7	CCFL 2(7)
		8	NC
		9	CCFL 1(6)
		10	NC
		11	CCFL COMMON