

**APPLIED  
CONCEPTS INC.**

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**AC5-12-1030**

**CCFL INVERTER**

*(For Multiple Tube Applications)*

**PRELIMINARY DATA SHEET**

8/17/99

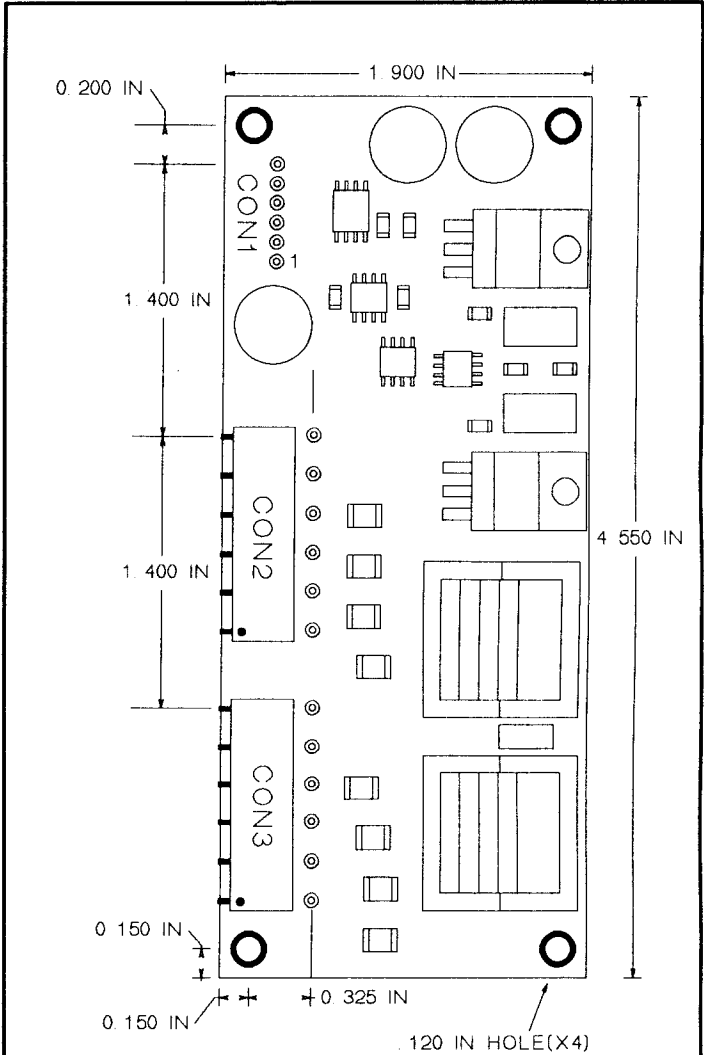
The AC5-12-1030 is designed to power 8 CCFL's to a nominal power level of 22 watts.

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.

Meets nominal drive requirements for Landmark 8 tube backlight BL-C053G



**Specifications:**

- Vin = +12V +/- 10%
- CCFL strike voltage = 1200Vrms @ Vin=12V
- CCFL tube current = 7.0mA/tube @ 100% intensity/Vin=12V)
- Recommended CCFL sustaining voltage = 300Vrms - 500Vrms
- Nominal tube current frequency = 42khz +/- 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

PROFILE = .560 IN

**Additional control capability:\***

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

\* Please contact factory for information

CON1  
0.038" HOLES

CON2(CON3)  
MOLEX 22-05-3111

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