

APPLIED CONCEPTS INC.

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CCFL INVERTER

(For Multiple Tube Applications)

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:

$V_{in} = +12V \pm 10\%$

CCFL strike voltage = 1200Vrms @ $V_{in}=12V$

CCFL tube current = 7.0mA/tube @ 100% intensity/ $V_{in}=12V$

Recommended CCFL sustaining voltage = 300Vrms - 500Vrms

Nominal tube current frequency = 42kHz $\pm 10\%$

Nominal pwm frequency = 98Hz $\pm 3\%$

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 ie:Master/Slave(s)

Synchronization to display frame-rate

Low power sleep-mode and soft-start

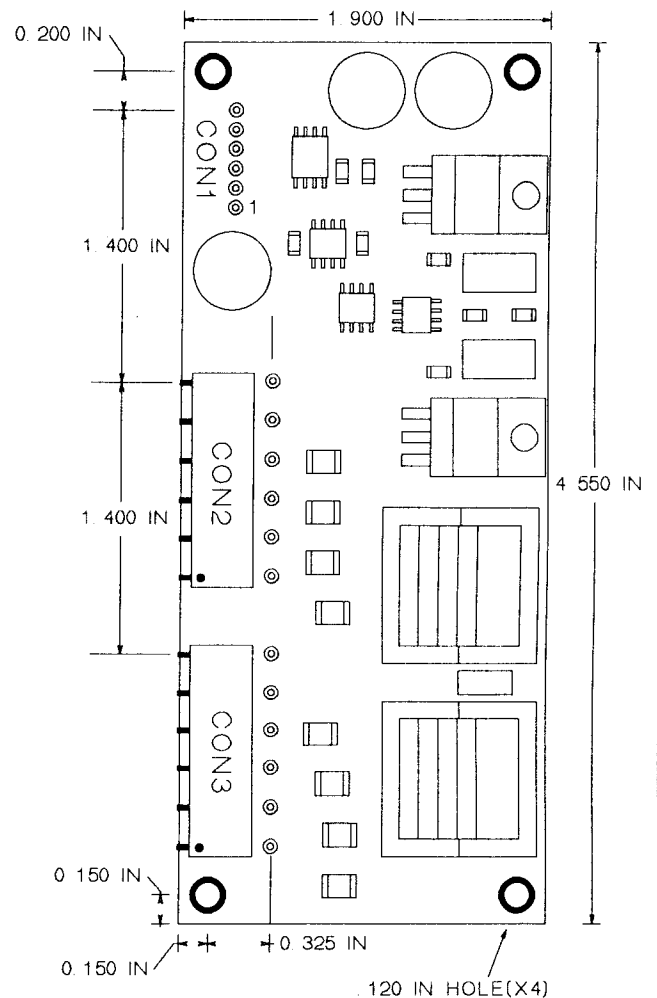
UL 1950 approval pending

* Please contact factory for information

AC5-12-1030

PRELIMINARY DATA SHEET

8/17/99



PROFILE = .560 IN

CON1
0.038" HOLES

PIN #

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

CON2(CON3)
MOLEX 22-05-3111

PIN #

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