

APPLIED CONCEPTS INC.

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CCFL INVERTER

(For Multiple Tube Applications)

The AC2-12-1130 is designed to power 5 CCFL's to a nominal power level of 10 watts.

Intensity control (0-100%) is accomplished by the user providing a variable dc level of 0V(off) to 5V(full-on) at pin 6 of CON1.

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

All outputs are open and short circuit protected.

Meets nominal drive requirements for Landmark C081 Backlight.

Specifications:

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

CCFL strike voltage = 925Vrms @ $V_{in}=12V$

CCFL tube current = 6.0mA/tube @ 100% intensity/ $V_{in}=12V$

Recommended CCFL sustaining voltage = 225Vrms - 425Vrms

Nominal tube current frequency = 52kHz $\pm 10\%$

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 8 of CON1

Additional control capability:*

Supports multiple units ie: Master/Slave(s)

Synchronization to display frame-rate

Low power sleep-mode and soft-start

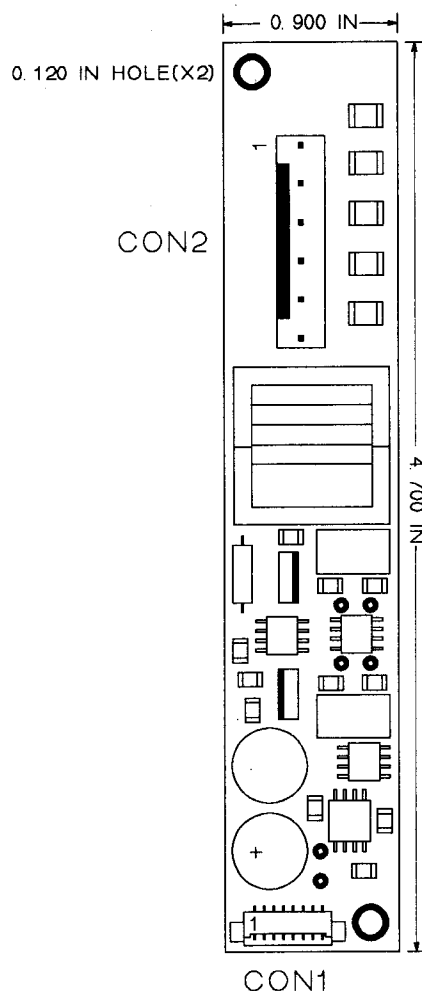
UL 1950 Recognition Pending

* Please contact factory for information

AC2-12-1130

PRODUCT DATA SHEET

4/13/00



PROFILE < 0.575 IN

INPUT CONNECTOR
CON1
MOLEX 53261-0890

OUTPUT CONNECTOR
CON2
MOLEX 22-28-0110

PIN #	FUNCTION
1	+12V(PWR)
2	+12V(PWR)
3	GND(PWR)
4	GND(PWR)
5	ENABLE
6	VCNTL
7	LOGIC HI
8	PWM OUT

PIN #	FUNCTION
1	CCFL 1
2	NC
3	CCFL 2
4	NC
5	CCFL 3
6	NC
7	CCFL 4
8	NC
9	CCFL 5
10	NC
11	CCFL COMMON