

**APPLIED
CONCEPTS INC.**

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AC2-12-1470

PRODUCT DATA SHEET

CCFL INVERTER
(For Multiple Tube Applications)

03/24/04

The AC2-12-1470 is designed to power 4 CCFL's to a nominal power level of 15 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).

Vsynch accepted on pin 7 of CON 1 (60 HZ)

All outputs are open and short circuit protected.

Specifications:

Vin = +12.0V +/- 10%

CCFL strike voltage = 1500Vrms @ Vin=12V

CCFL tube current = 7.5mA/tube @ 100% intensity/Vin=12V)

Recommended CCFL sustaining voltage = 400Vrms - 600Vrms

Nominal tube current frequency = 57khz +/- 10%

Pwm duty cycle range = 0 to 100%

Average electrical efficiency >90%

A 60 HZ vertical synch signal on pin 7 of CON 1 results in a 120hz synchronized pwm. Absence of this signal results in free run rate of 115 hz. NOTE pin should be held at logic "1" if unused.

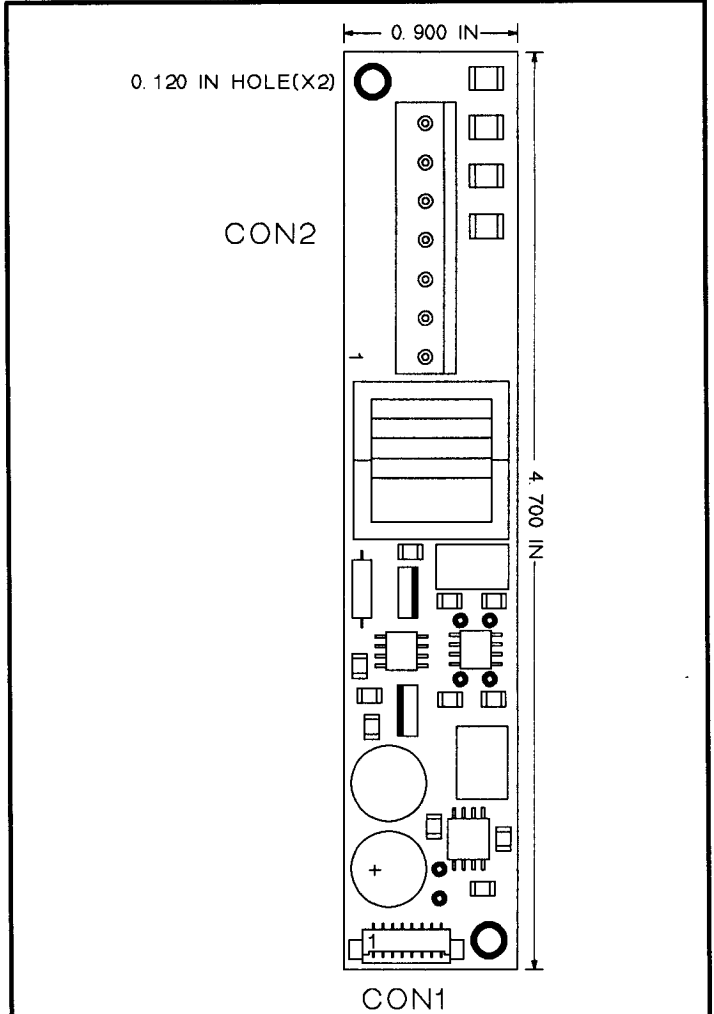
Additional control capability:*

UL 1950 recognition pending

Synchronization to display frame-rate

Low power sleep-mode and soft-start

* Please contact factory for information



PROFILE < 0.575 IN

INPUT CONNECTOR CON1 MOLEX 53261-0890		OUTPUT CONNECTOR CON2 MOLEX 22-28-0130	
PIN #	FUNCTION	PIN #	FUNCTION
1	+12V(PWR)	1	CCFL COMMON
2	+12V(PWR)	2	NC
3	GND(PWR)	3	NC
4	GND(PWR)	4	NC
5	ENABLE	5	NC
6	VCNTL	6	NC
7	VSYNCH	7	CCFL4
8	PWM OUT	8	NC
		9	CCFL3
		10	NC
		11	CCFL2
		12	NC
		13	CCFL1