

# APPLIED CONCEPTS INC.

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# AC2-12-1271

## CCFL INVERTER

(For Multiple Tube Applications)

## PRODUCT DATA SHEET

10/06/01

The AC2-12-1271 is designed to power 4 CCFL's to a nominal power level of 13.5 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.

### Specifications:

Vin = +12V +/- 10%

CCFL strike voltage = 1400Vrms @ Vin=12V

CCFL tube current = 6.0mA/tube @ 100% intensity/Vin=12V)

Recommended CCFL sustaining voltage = 450Vrms - 650Vrms

Nominal tube current frequency = 54khz +/- 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 8 of CON1

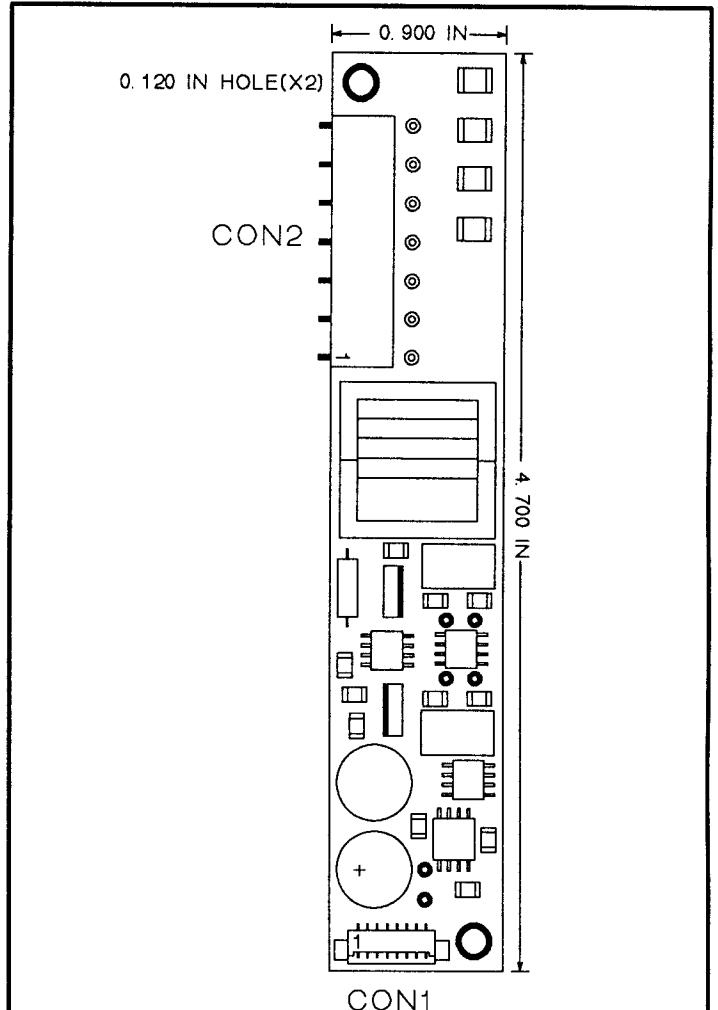
### Additional control capability:\*

Supports multiple units ie:Master/Slave(s)

Synchronization to display frame-rate

Low power sleep-mode and soft-start

\* Please contact factory for information



PROFILE < 0.575 IN

INPUT CONNECTOR  
CON1  
MOLEX 53261-0890

OUTPUT CONNECTOR  
CON2  
MOLEX 22-28-1130

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	+5V OUT	7	CCFL4
8	PWM OUT	8	NC
		9	CCFL3
		10	NC
		11	CCFL2
		12	NC
		13	CCFL1