

APPLIED CONCEPTS INC.

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CCFL INVERTER

(For Multiple Tube Applications)

The AC5-12-1035 is designed to power 8 CCFL's to a nominal power level of 21 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.

Specifications:

Vin = +12V +/- 10%

CCFL strike voltage = 1500Vrms @ Vin=12V

CCFL tube current = 5.0mA/tube @ 100% intensity/Vin=12V

Recommended CCFL sustaining voltage = 425Vrms - 625Vrms

Nominal tube current frequency = 40khz +/- 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

Additional control capability:*

Supports multiple units ie: Master/Slave(s)

Synchronization to display frame-rate

Low power sleep-mode and soft-start

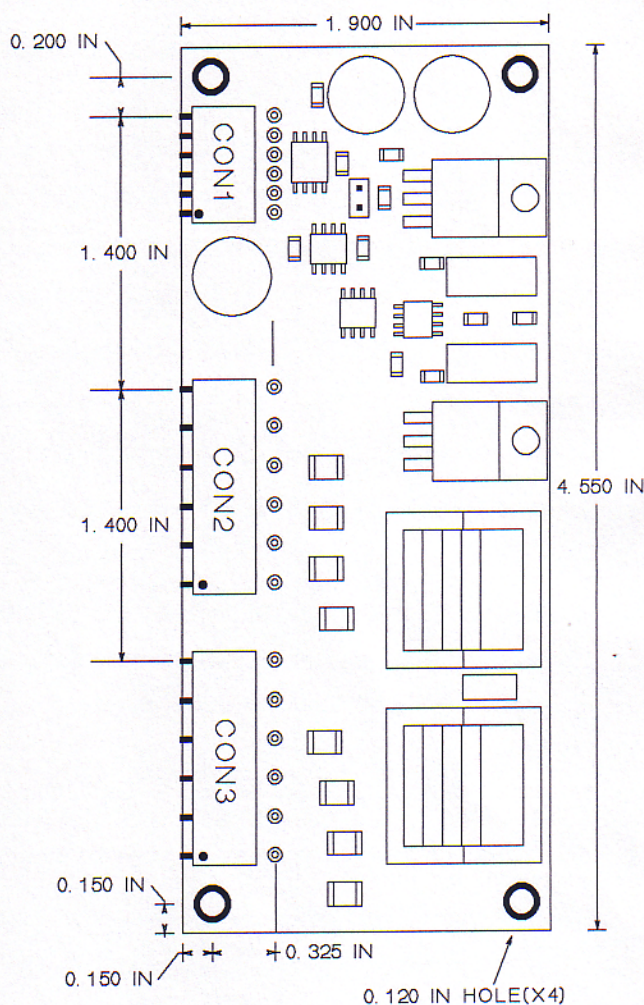
UL 1950 Recognized

* Please contact factory for information

AC5-12-1035

PRODUCT DATA SHEET

8/25/04



PROFILE = 0.575 IN

CON1
MOLEX 22-28-1063

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

CON2(CON3)
MOLEX 22-28-1113

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