

# APPLIED CONCEPTS INC.

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## CCFL INVERTER

(For Dual Tube Applications)

The AC7-12-1296 is designed to drive 2 CCFLs to a nominal current level of 6.5mA/tube.

Intensity control (0-100%) is accomplished by the user providing a variable dc level of 0V(off) to 5V(full-on) at pin 3 of CON1.

Enable function 5V indicates on, 0V indicates off is provided on pin 4 of CON1

The lamp outputs are open and short circuit protected.

### Specifications:

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

CCFL strike voltage = 1450Vrms @  $V_{in}=12V$

CCFL tube current = 6.5mA/tube @ 100% intensity/ $V_{in}=12V$

Recommended CCFL sustaining voltage = 600Vrms - 800Vrms

Nominal tube current frequency = 63kHz  $\pm 10\%$

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

Pwm duty cycle range = 0 to 100%

Average electrical efficiency >87%

### Additional control capability:\*

Simple 1 or 2 button intensity control

CDS ambient light sensor control

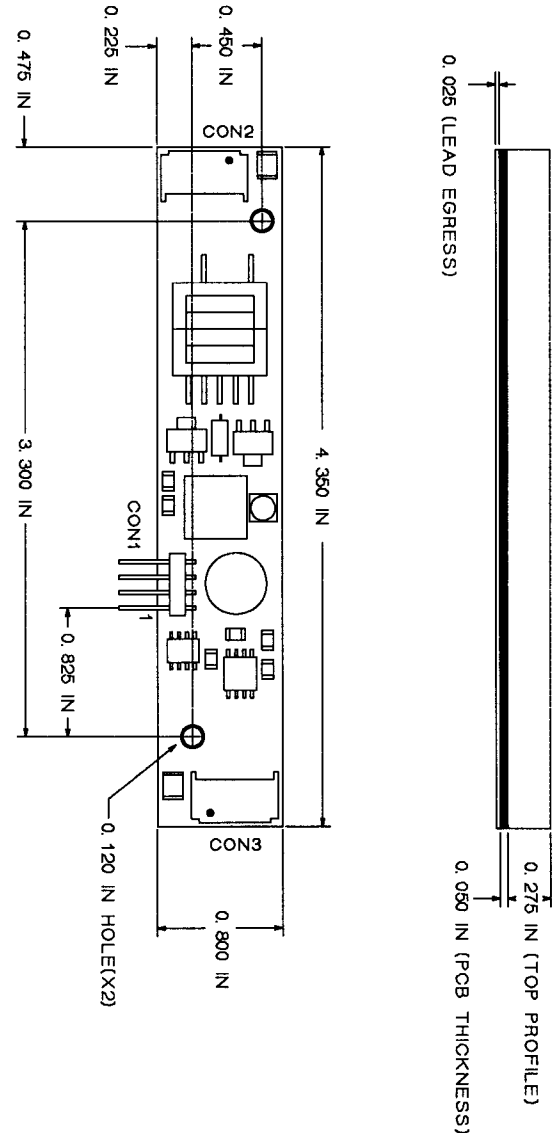
Two-wire(variable resistance) intensity control

\* Please contact factory for information

# AC7-12-1296

## PRODUCT DATA SHEET

12/11/01



INPUT CONNECTOR  
CON1  
MOLEX 22-28-8041

| PIN # | FUNCTION |
|-------|----------|
| 1     | +VIN     |
| 2     | GND      |
| 3     | VCNTL    |
| 4     | ENABLE   |

OUTPUT CONNECTOR  
CON2, CON3  
JST SM03(4.0)B-BHS-1-TB

| PIN # | FUNCTION  |
|-------|-----------|
| 1     | CCFL HOT  |
| 2     | NC        |
| 3     | CCFL COLD |