

APPLIED CONCEPTS INC.

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CCFL INVERTER

(For Dual Tube Applications)

The AC7-12-1455 is designed to drive 2 CCFLs to a nominal current level of 8.0mA/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 on, 0V 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 = 1400Vrms @ $V_{in}=12V$

CCFL tube current = 8.0mA/tube @ 100% intensity/ $V_{in}=12V$

Recommended CCFL sustaining voltage = 400Vrms - 600Vrms

Nominal tube current frequency = 75kHz $\pm 10\%$

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

Synchronization to display frame-rate capable

Two-wire(variable resistance) intensity control

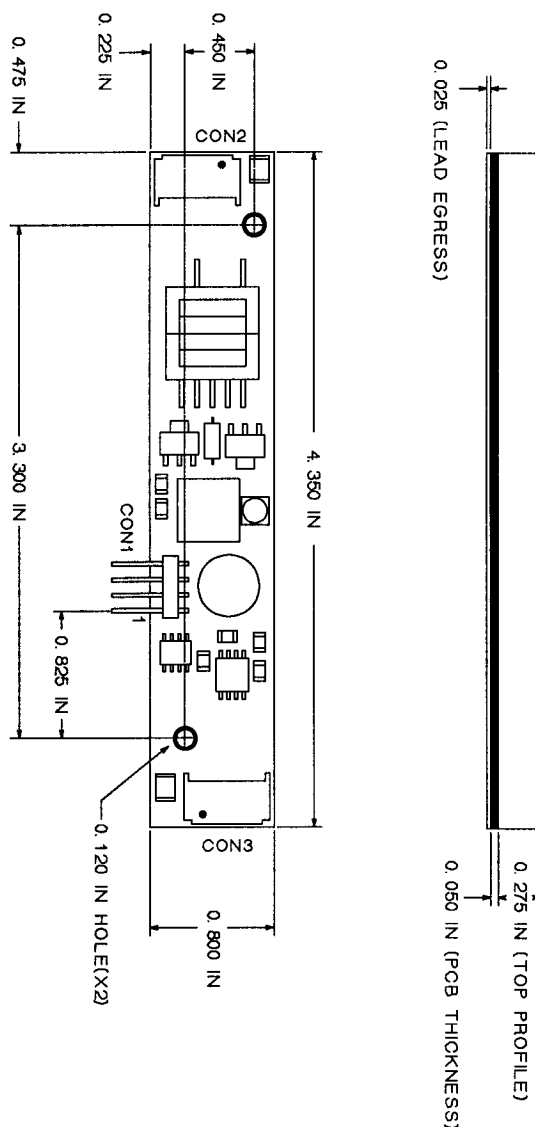
Serial communication control

* Please contact factory for information

AC7-12-1455

PRODUCT DATA SHEET

12/17/03



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