APPLIED CONCEPTS INC.

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AC7-12-1127

PRODUCT DATA SHEET

CCFL INVERTER

(For Dual Tube Applications)

8/7/00

The AC7-12-1127 is designed to drive 2 CCFLs to a nominal current level of 8.0mA.

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.

A +5V level is available at pin 4 of CON1 for powering the high-side of the intensity control potientiometer.

The lamp outputs are open and short circuit protected.

Meets nominal drive requirements for the LG Electronics LM151X2 - 15 inch LCD display.

Specifications:

Vin = +12V +/- 10%

CCFL strike voltage = 1400Vrms @ Vin=12V

CCFL tube current =8.0mA/tube @ 100% intensity/Vin=12V)

Recommended CCFL sustaining voltage = 400Vrms - 600Vrms

Nominal tube current frequency = 75khz +/- 10%

Nominal pwm frequency = 98Hz +/- 3%

Pwm duty cycle range = 0 to 100%

Average electrical efficiency >87%

*Additional control capability:**

Enable/Disable function

Simple 1 or 2 button intensity control

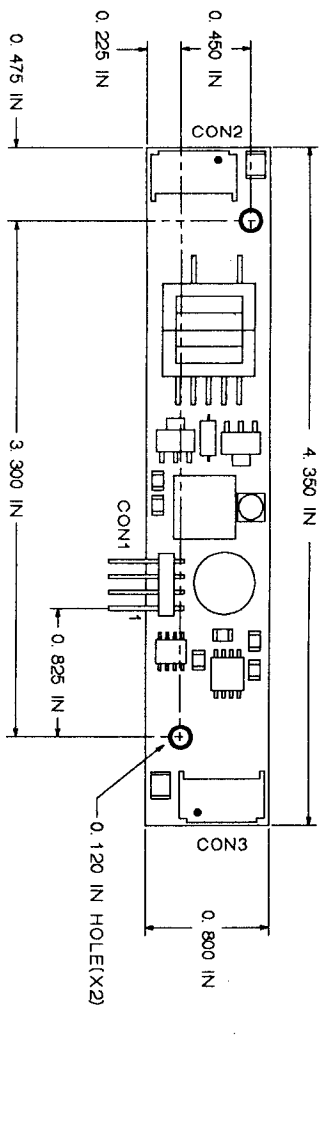
CDS ambient light sensor control

Synchronization to display frame-rate capable

Two-wire(variable resistance) intensity control

Serial communication control

* Please contact factory for information





INPUT CONNECTOR
CON1
MOLEX 22-28-8041

PIN #	FUNCTION
1	+VIN
2	GND
3	VCNTL
4	+5V OUT

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

PIN #	FUNCTION
1	CCFL HOT
2	NC
3	CCFL COLD