

**APPLIED  
CONCEPTS INC.**

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**AC7-12-1131**

**CCFL INVERTER**  
*(For Dual Tube Applications)*

**PRODUCT DATA SHEET**

5/8/00

The AC7-12-1131 is designed to drive 2 CCFL's to a nominal current level of 6.0mA per tube.

Intensity control (0-100%) is accomplished by the user providing an active-low signal to the up-button or down-button control pins of CON1.

Simultaneous active low signals on both button inputs will set the lamps at 0% intensity.

The lamp outputs are open and short circuit protected.

Meets nominal drive requirements and is plug-in compatible for the Sharp LQ64D343 flatpanel backlight.

**Specifications:**

Vin = +12V +/- 10%

CCFL strike voltage = 1000Vrms @ Vin=12V

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

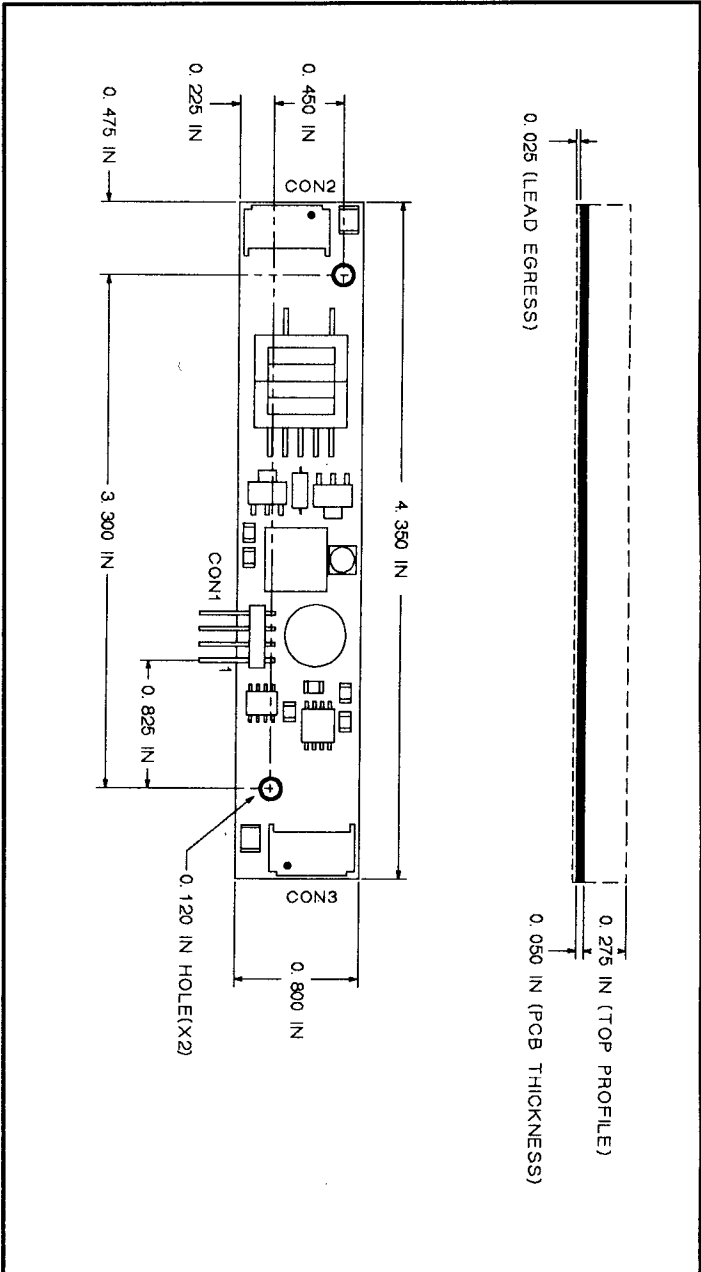
Recommended CCFL sustaining voltage = 250Vrms - 450Vrms

Nominal tube current frequency = 50kHz +/- 10%

Nominal pwm frequency = 98Hz +/- 3%

Pwm duty cycle range = 0 to 100%

Average electrical efficiency >88%



INPUT CONNECTOR CON1 MOLEX 22-28-8041		OUTPUT CONNECTOR CON2, CON3 JST SM03(4.0)B-BHS-1-TB	
PIN #	FUNCTION	PIN #	FUNCTION
1	+12VDC	1	CCFL HOT
2	GND	2	NO
3	BUTTON-UP	3	CCFL COLD
4	BUTTON-DOWN		