

APPLIED CONCEPTS INC.

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AC7-28-1175

CCFL INVERTER

(For Dual Tube Applications)

PRODUCT DATA SHEET

10/10/00

The AC7-28-1175 is designed to drive 2 CCFLs to a nominal current level of 7.0mA.

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 potentiometer.

The lamp outputs are open and short circuit protected.

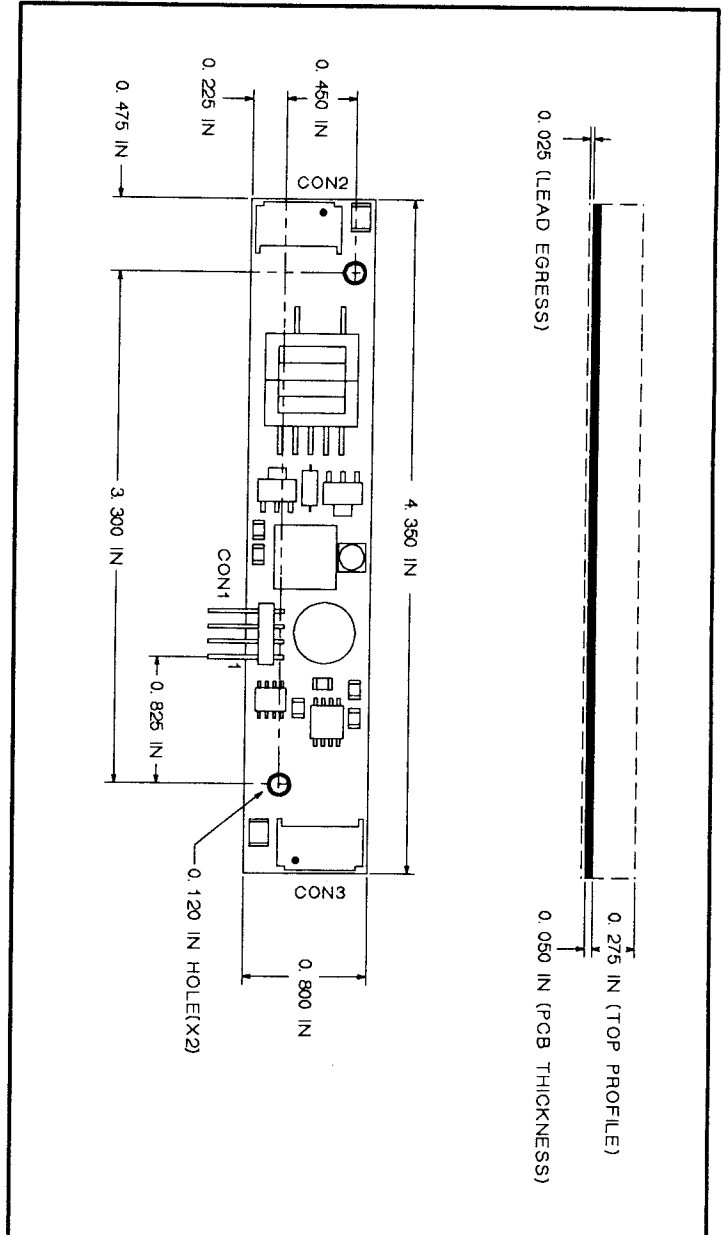
Specifications:

- Vin = +28V +/- 10%
- CCFL strike voltage = 1500Vrms @ Vin=28V
- CCFL tube current = 7.0mA/tube @ 100% intensity/Vin=28V
- Recommended CCFL sustaining voltage = 500Vrms - 700Vrms
- Nominal tube current frequency = 57khz +/- 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		OUTPUT CONNECTOR CON2,CON3 JST SM03(4 0)B-BHS-1-TB	
PIN #	FUNCTION	PIN #	FUNCTION
1	+VIN	1	CCFL HOT
2	GND	2	NC
3	VCNTL	3	CCFL COLD
4	+5V OUT		