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AC-1421

CCFL INVERTER

(For Single Tube Applications)

PRODUCT DATA SHEET

05/29/03

The AC-1421 is designed to drive 1 CCFL to a nominal current level of 6.0mA.

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 output is open and short circuit protected.

Specifications:

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

CCFL strike voltage = 1400Vrms @ $V_{in}=12V$

CCFL tube current = 6.0mA/tube @ 100% intensity/ $V_{in}=12V$

Recommended CCFL sustaining voltage = 400Vrms - 600Vrms

Nominal tube current frequency = 41kHz $\pm 10\%$

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

Pwm duty cycle range = 0 to 100%

Average electrical efficiency >87%

Additional control capability:*

Enable/Disable function

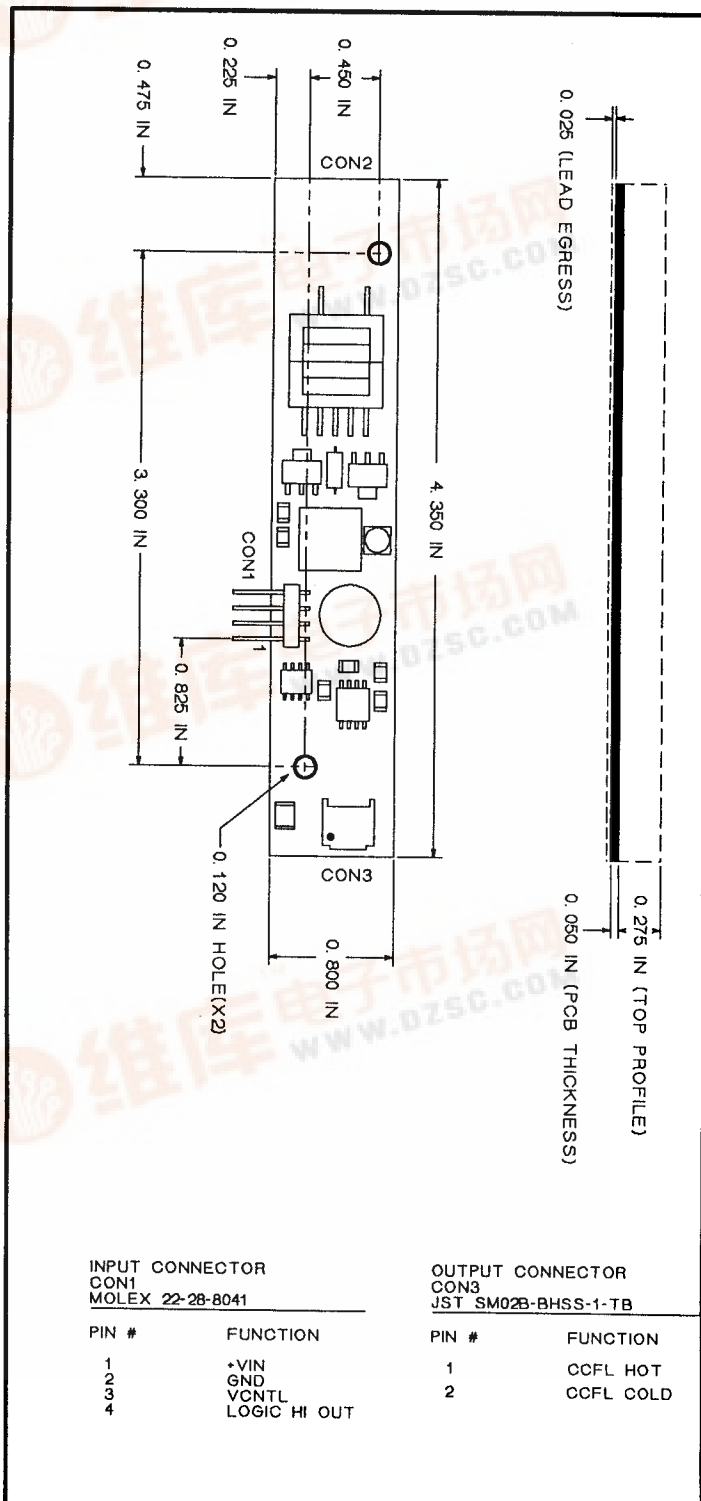
Simple 1 or 2 button intensity control

CDS ambient light sensor control

Synchronization to display frame-rate capable

Two-wire(variable resistance) intensity control

Serial communication control



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