

**APPLIED  
CONCEPTS INC.**

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**ACB-12-1383**

*PRODUCT DATA SHEET*

11/16/02

**CCFL INVERTER**

*(For Multiple Tube Applications)*

The ACB-12-1383 is designed to power 6 CCFL's to a nominal power level of 42 watts from an input voltage of +12V.

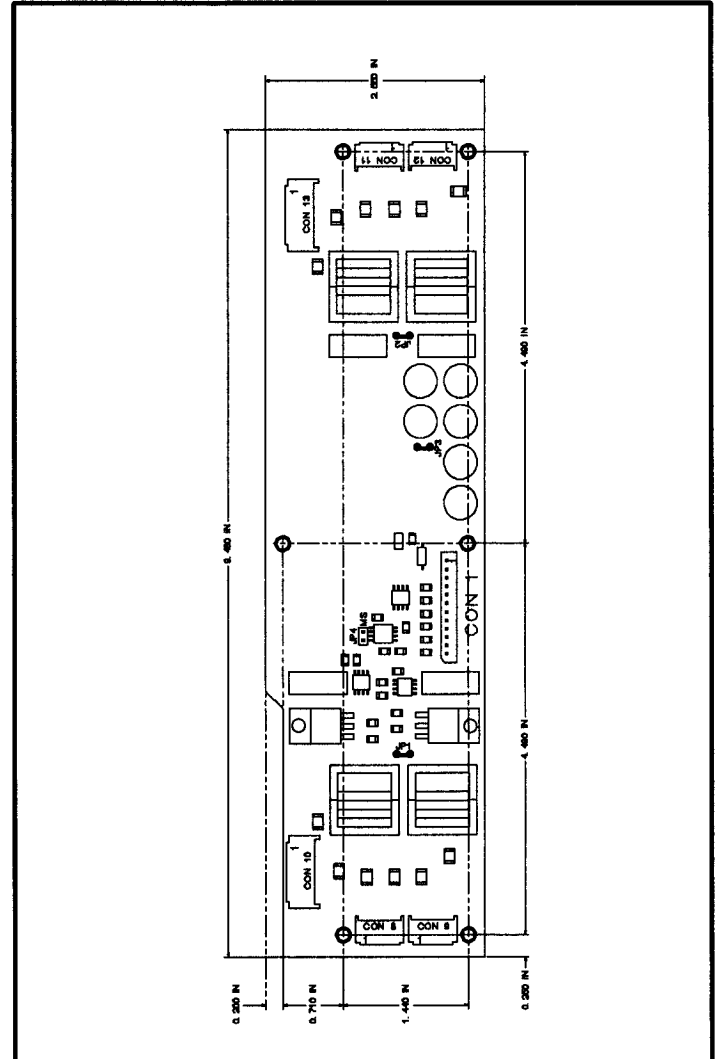
The ACB-12-1383 features analog dimming control via a dc control level of 0V(off) to +5V(on) @ pin 7 of CON1. A dc reference voltage(+5V) is available @ pin 6 of CON1 for external use.

Enable control (0V=off, +5V=on) is accomplished @ pin 5 of CON1.

All outputs are open and short circuit protected.

**Specifications:**

- Vin = +12V +/- 10%
- CCFL strike voltage = 2600Vrms
- CCFL tube current = 7.8mA/tube @ 100% intensity
- Recommended CCFL sustaining voltage = 775Vrms - 975Vrms
- Nominal tube current frequency = 26 khz +/- 10%
- Nominal pwm frequency(free-run) = 98Hz +/- 3%
- Pwm duty cycle range = 0 to 100%
- Maximum reference voltage current draw(CON1, pin 6) = 10mA
- Average electrical efficiency > 90%



PROFILE < 0.575 IN

INPUT CONNECTOR  
CON1  
MOLEX 22-03-5125

PIN #	FUNCTION
1,2	+VIN (POWER)
3,4	GND(POWER)
5	ENABLE
6	+5V OUT
7	VCNTL
8	GND(SIGNAL)
9	VSYNC IN(OPTIONAL)
10	GND(SIGNAL)
11	TBD
12	GND(SIGNAL)

OUTPUT CONNECTORS  
CON8,CON9,CON11,CON12  
JST SM03(4.0)B-BHS-1-TB

PIN #	FUNCTION
1	CCFL HOT
2	NC
3	CCFL COLD

PIN #	FUNCTION
1	CCFL HOT
2	NC
3	NC
4	CCFL COLD