

APPLIED CONCEPTS INC.

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ACB-R1-1240

CCFL INVERTER

(For Multiple Tube Applications)

PRELIMINARY DATA SHEET

2/19/02

The ACB-R1-1240 is designed to power 6 CCFL's to a nominal power level of 34 watts and regulated over an input voltage range of +8V to +18V.

The ACB-R1-1240 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.

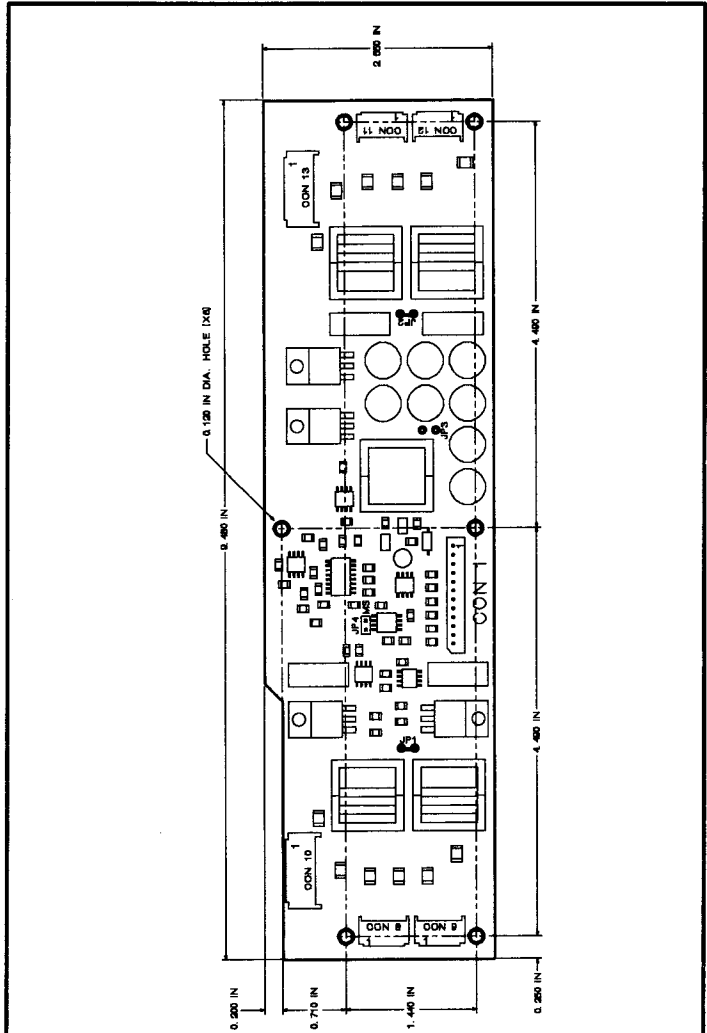
This unit also features input overvoltage shutdown with hysteresis.

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

As an option, a vertical sync signal can be accepted @ pin 9 of CON1 for locking the pwm frequency to the vertical refresh rate.

All outputs are open and short circuit protected.

This inverter is designed and is direct plug-in compatible for the Samsung LTM213U3-L02.



PROFILE < 0.575 IN

Specifications:

- Vin = +8V to +18V
- CCFL strike voltage = 2000Vrms
- CCFL tube current = 6.5mA/tube @ 100% intensity
- Recommended CCFL sustaining voltage = 750Vrms - 950Vrms
- Nominal tube current frequency = TBDkhz +/- 10%
- Nominal pwm frequency(free-run) = 98Hz +/- 3%
- Pwm duty cycle range = 0 to 100%
- Maximum reference voltage current draw(CON1, pin 6) = 10mA
- Input OV shutdown trip point = 21.3V +/-5%.
- VSYNC input requirements = 60Hz nominal, 5V negative going (NOTE: Absence of Vsync will cause the unit to free-run @ 98Hz nominal. Also Vsync input should be tied to ground if not used.

INPUT CONNECTOR CON1 MOLEX 22-03-5125

PIN #	FUNCTION
1,2	+VIN
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

OUTPUT CONNECTORS CON10,CON13 JST SM04(4.0)B-BHS-1-TB

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