

**APPLIED
CONCEPTS INC.**

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ACB-12-1261

CCFL INVERTER

(For Multiple Tube Applications)

PRODUCT DATA SHEET

4/23/02

The ACB-12-1261 is designed to power 6 CCFL's to a nominal power level of 34 watts from an input voltage of +12V.

The ACB-12-1261 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.

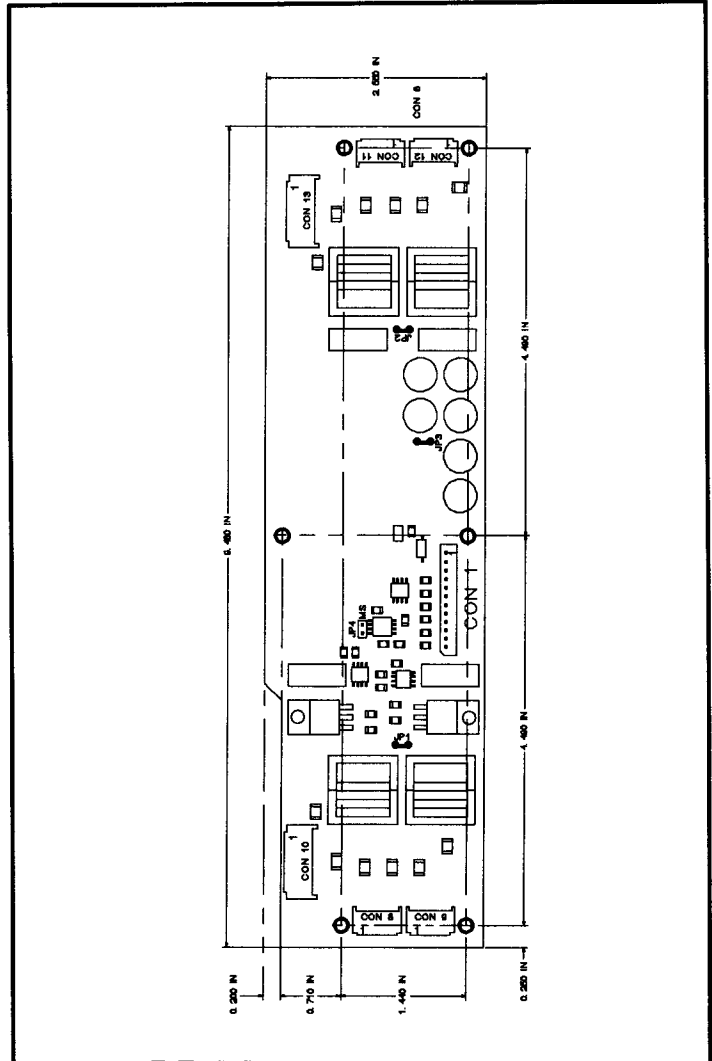
As an option, a vertical sync signal can be accepted @ pin 9 of CON1 for locking the pwm frequency to the vertical refresh rate.

All outputs are open and short circuit protected.

This inverter is designed and is direct plug-in compatible for the Samsung LTM240W1-L01

Specifications:

- Vin = +12V +/- 10%
- CCFL strike voltage = 2600Vrms
- CCFL tube current = 6.5mA/tube @ 100% intensity
- Recommended CCFL sustaining voltage = 775Vrms - 975Vrms
- Nominal tube current frequency = 28khz +/- 10%
- Nominal pwm frequency(free-run) = 98Hz +/- 3%
- Pwm duty cycle range = 0 to 100%
- Maximum reference voltage current draw(CON1, pin 6) = 10mA
- 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.
- Average electrical efficiency > 90%



PROFILE < 0.575 IN

INPUT CONNECTOR CON1 MOLEX 22-03-5125		OUTPUT CONNECTORS CON8, CON9, CON11, CON12 JST SM03(4.0)B-BHS-1-TB	
PIN #	FUNCTION	PIN #	FUNCTION
1,2	+VIN	1	CCFL HOT
3,4	GND(POWER)	2	NC
5	ENABLE	3	CCFL COLD
6	+5V OUT		
7	VCNTL	OUTPUT CONNECTORS CON10, CON13 JST SM04(4.0)B-BHS-1-TB	
8	GND(SIGNAL)	PIN #	FUNCTION
9	VSYNC IN(OPTIONAL)	1	CCFL HOT
10	GND(SIGNAL)	2	NC
11	TBD	3	NC
12	GND(SIGNAL)	4	CCFL COLD