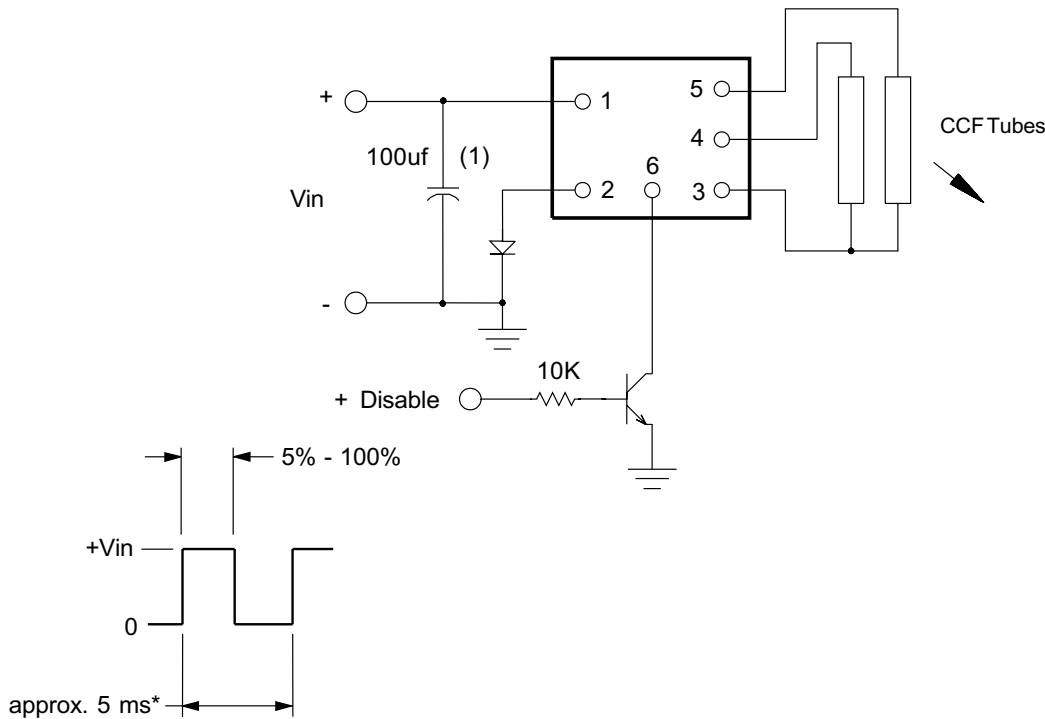


E2096E

Dimming Option



* should be selected to be compatible with LCD and display driver

Note 1 Input bypass capacitor (10uf - 100uf) may be required to reduce reflected ripple.



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Made in U.S.A.



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Specifications and
Applications Information

01/10/01

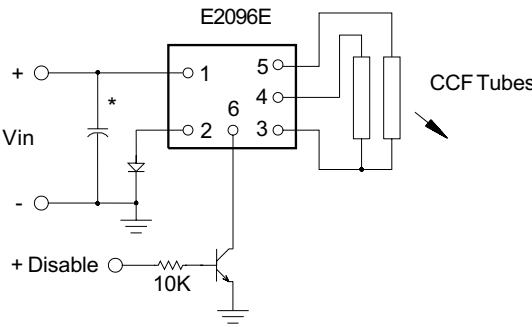
Preliminary

The E2096E (E200II Series) dc to ac inverter is specifically designed to power the NEC NL6448BC33 LCD display to a moderate brightness level from a +4.5 Volt DC source.

The E2096E's small size, encapsulated package makes it the ideal power source for applications where small size, high efficiency and reliability are critical.

This inverter is designed to satisfy the most common cold-cathode lighting requirements for the NEC NL6448BC33 display where an external disable capability is desired. Custom units, providing different inputs, outputs or package refinements are available.

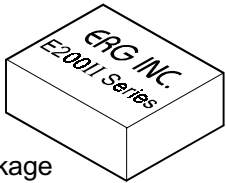
Connection Diagram



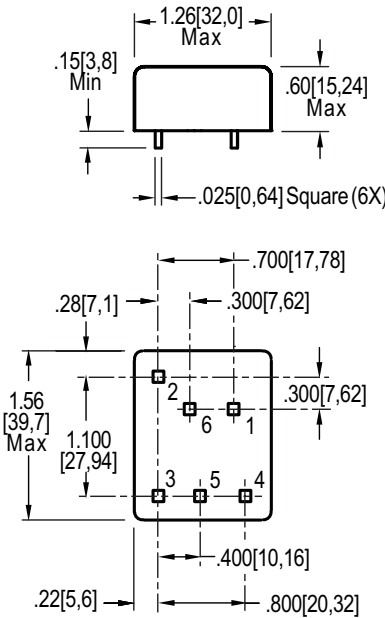
* Input bypass capacitor may be required (10uf - 100uf)

E2096E

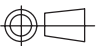
Two Tube
DC to AC Inverter



Package Configuration



- 1. Vin(+)
- 2. Vin(-)
- 3. Common
- 4. Vout(AC)
- 5. Vout(AC)
- 6. Control



E2096E

Absolute Maximum Ratings

Rating	Symbol	Value	Units
Input Voltage Range	Vin	-0.3 to +5.0	Vdc
Operating Temperature	To	0 to +70	°C
Storage Temperature	Tstg	-40 to +85	°C

Recommended Operating Conditions

Rating	Symbol	Value	Units
Input Voltage	Vin	+2.5 to 5.0	Vdc

Electrical Characteristics

Unless otherwise noted Vin = 4.5 Volts dc and Ta = 25 °C

Characteristic	Symbol	Min	Typ	Max	Units
Input Current	Iin	-	1.3	1.4	Adc
Operating Frequency	Fo	27	32	37	KHz
Minimum Output Voltage	Vout (min)	1225	-	-	Vrms
Efficiency	η	-	82	-	%
Output Current per tube	Iout	-	5	-	marms
Output Voltage (When Powering a NEC NL6448BC33 display)	Vout	-	480	-	Vrms
Pin6 Input Current Requirement	-	-	17	-	madc

After tube has be allowed to warm-up for 5 minutes
External Disable Circuit shown on page 3.

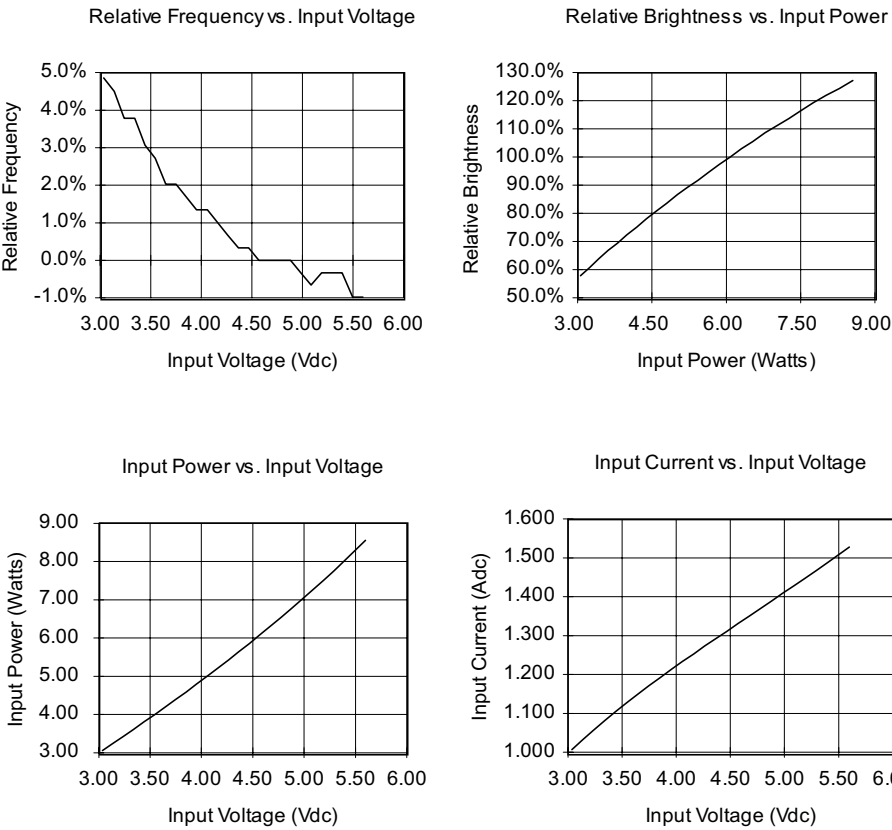
Specifications subject to change without notice.



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E2096E

Typical Performance Curves



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