

E2037

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Endicott Research Group, Inc.

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Made in U.S.A.



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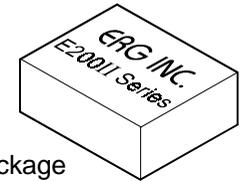
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E2037

Single Tube
DC to AC Inverter



E200II Package

Specifications and Applications Information

03/22/00

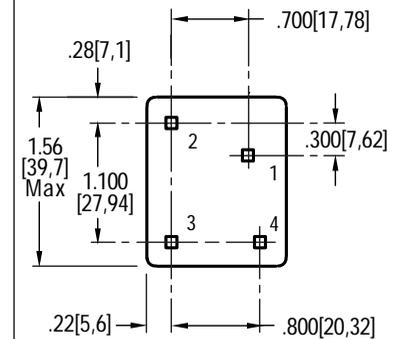
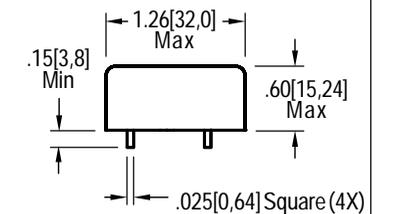
Preliminary

The E2037 (E200II Series) dc to ac inverter is specifically designed to power the NEC NL10276BC24-04 display to a moderate brightness level from a +12 Volt DC source.

The E2037'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 NL10276BC24-04 display. Custom units providing different inputs, outputs or package refinements are available.

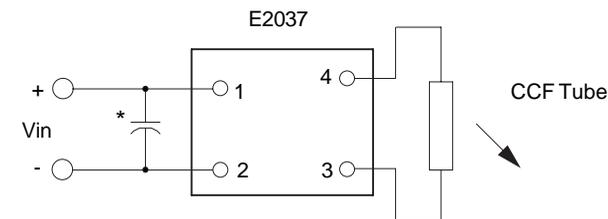
Package Configuration



- 1. Vin(+)
- 2. Vin(-)
- 3. Vout(AC)
- 4. Vout(AC)



Connection Diagram



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

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Absolute Maximum Ratings

Rating	Symbol	Value	Units
Input Voltage Range	V _{in}	-0.3 to +13.2	V _{dc}
Operating Temperature	T _o	0 to +70	°C
Storage Temperature	T _{stg}	-40 to +85	°C

Recommended Operating Conditions

Rating	Symbol	Value	Units
Input Voltage	V _{in}	+6 to 13.2	V _{dc}

Electrical Characteristics

Unless otherwise noted V_{in} = 12.00 Volts dc and T_a = 25 °C

Characteristic	Symbol	Min	Typ	Max	Units
Input Current	I _{in}	-	0.37	0.41	A _{dc}
Operating Frequency	F _o	31	36	41	KHz
Minimum Output Voltage	V _{out} (min)	1500	-	-	V _{rms}
Efficiency	η	-	82	-	%
Output Current	I _{out}	-	5.3	-	ma _{rms}
Output Voltage (When Powering a load simulating the referenced display)	V _{out}	-	690	-	V _{rms}

After tube has be allowed to warm-up for 5 minutes

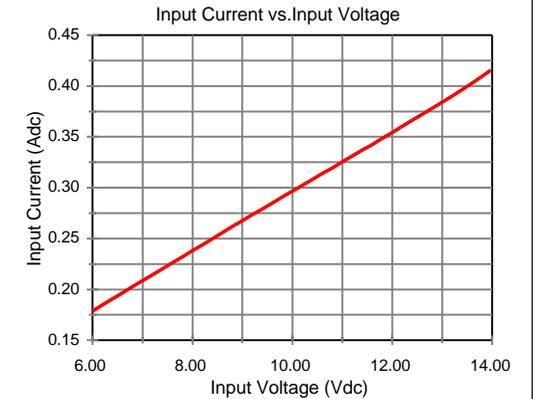
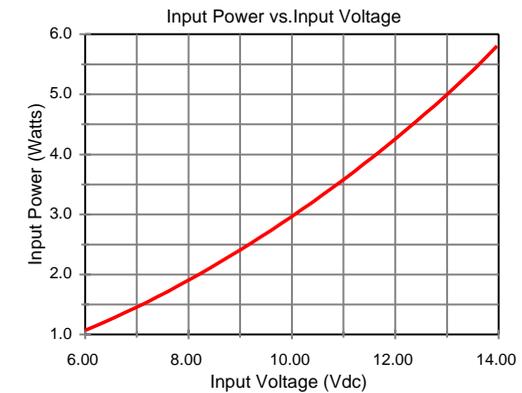
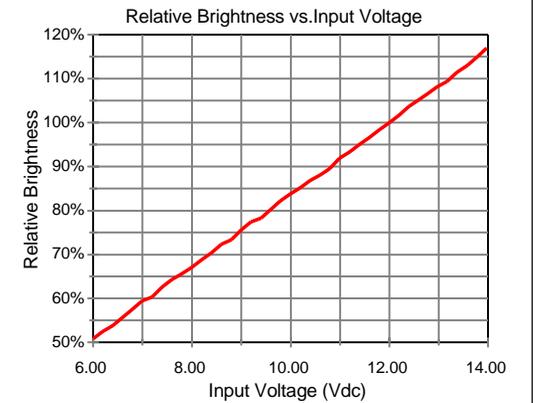
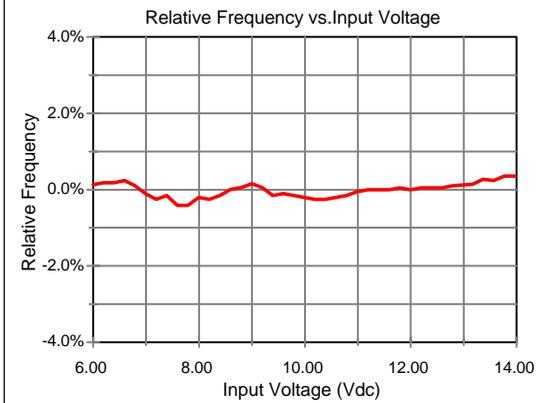
Specifications subject to change without notice.



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Typical Performance Curves



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