

E2726

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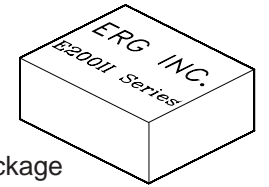
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E2726

Single Tube  
DC to AC Inverter



E200 Package

## Specifications and Applications Information

05/13/02

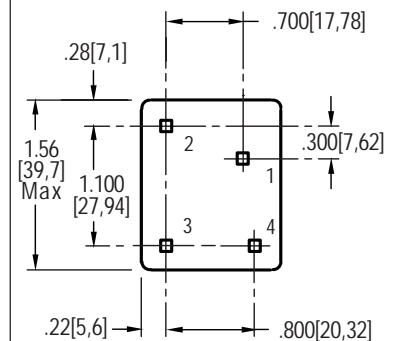
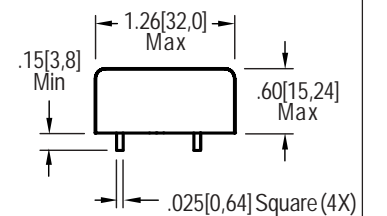
Preliminary

The ERG E2726 (E200II Series) dc to ac inverter is specifically designed to power the Hitachi SX16H003 LCD display module to a moderate brightness level from a +12 volt dc source.

The E2726'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 Hitachi SX16H003 display. Custom units, providing different inputs, outputs or package refinements are available.

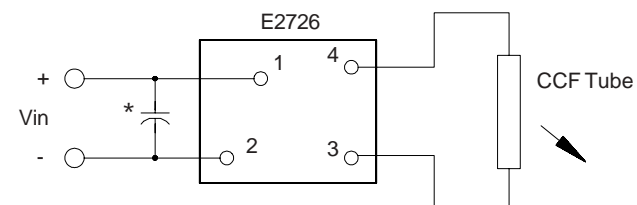
### Package Configuration



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



### Connection Diagram



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

**Absolute Maximum Ratings**

Rating	Symbol	Value	Units
Input Voltage Range	Vin	-0.3 to +13.2	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	+6 to 13.2	Vdc

**Electrical Characteristics**

Unless otherwise noted Vin = 12.00 Volts dc and Ta = 25°C

Characteristic	Symbol	Min	Typ	Max	Units
Input Current	Iin	-	.103	.120	Adc
Operating Frequency	Fo	27	32	37	KHz
Minimum Output Voltage	Vout (min)	1400	-	-	Vrms
Efficiency (note 1)	h	-	89	-	%
Output Current	Iout	-	3	-	marms
Output Voltage (When powering a Hitachi SX16H003 display)	Vout	-	560	-	Vrms

After tube has be allowed to warm-up for 5 minutes Specifications subject to change without notice.

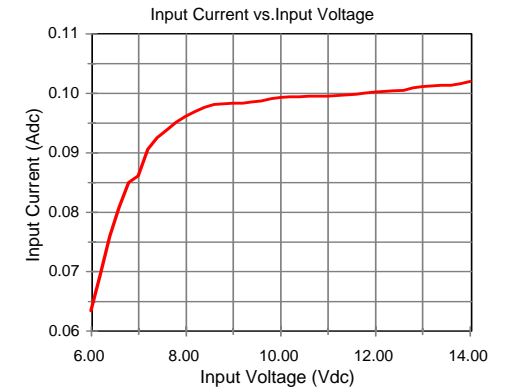
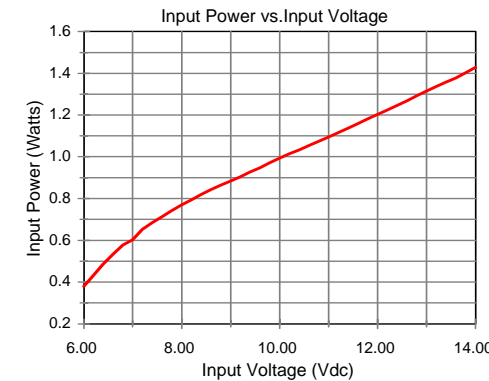
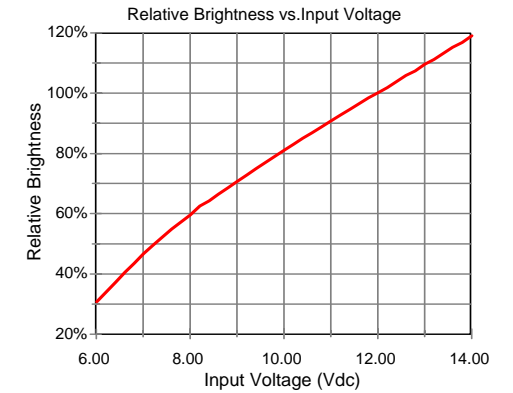
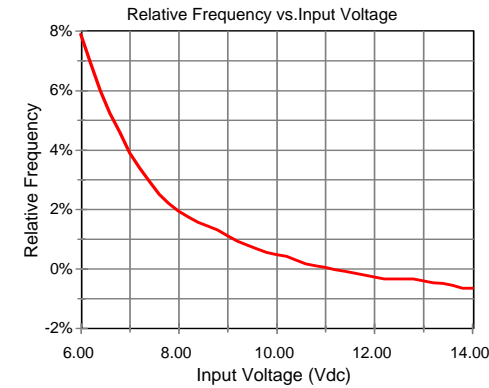
Note 1: Efficiency was calculated using an output voltage of 365 Vrms.

Note 2: Inverter to display high voltage wire length must be short to minimize stray capacitance gains and losses.



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**Typical Performance Curves**



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