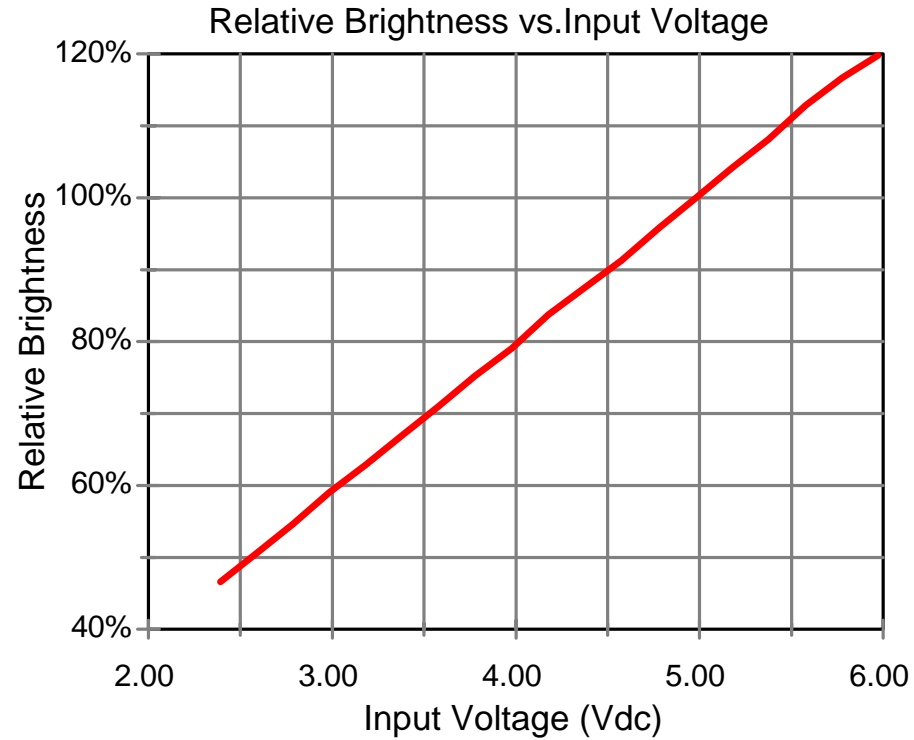


E2322



**Endicott Research Group, Inc.**

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607-754-9187

Made in U.S.A.



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## Specifications and Applications Information

1/24/00

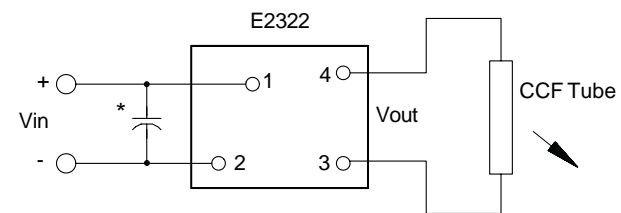
Preliminary

The E2322 (E200II Series) dc to ac inverter is specifically designed to power the Sharp LQ057Q3DC02 LCD display to a moderate brightness level from a +5 volt dc source.

The E2322'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 Sharp LQ057Q3DC02 display. Custom units, providing different inputs, outputs or package refinements are available.

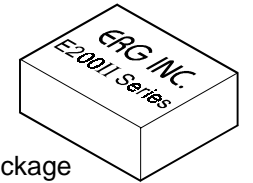
### Connection Diagram



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

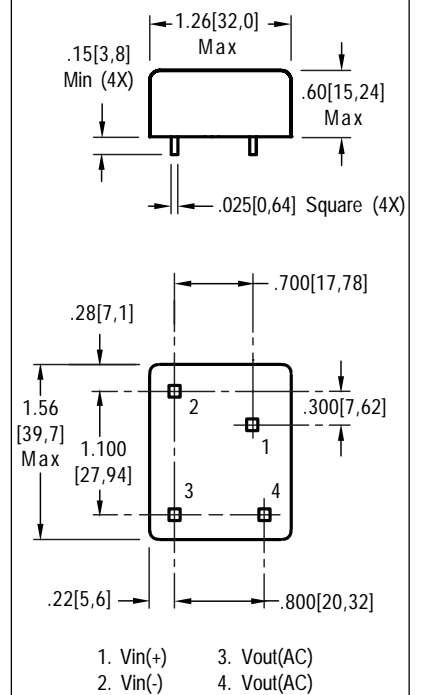
E2322

Single Tube  
DC to AC Inverter



E200II Package

### Package Configuration



# E2322

## Absolute Maximum Ratings

Rating	Symbol	Value	Units
Input Voltage Range	$V_{in}$	-0.3 to +5.5	Vdc
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	$V_{in}$	+2.5 to 5.5	Vdc

## Electrical Characteristics

Unless otherwise noted  $V_{in} = 5.00$  Volts dc and  $T_a = 25$  °C

Characteristic	Symbol	Min	Typ	Max	Units
Input Current	$I_{in}$	-	0.79	0.89	Adc
Operating Frequency	$F_o$	32	37	42	KHz
Minimum Output Voltage	$V_{out}$ (min)	1470	-	-	$V_{rms}$
Efficiency	$\eta$	-	91	-	%
Output Current	$I_{out}$	-	5.2	-	marms
Output Voltage (When Powering a load simulating the referenced display)	$V_{out}$	-	690	-	$V_{rms}$

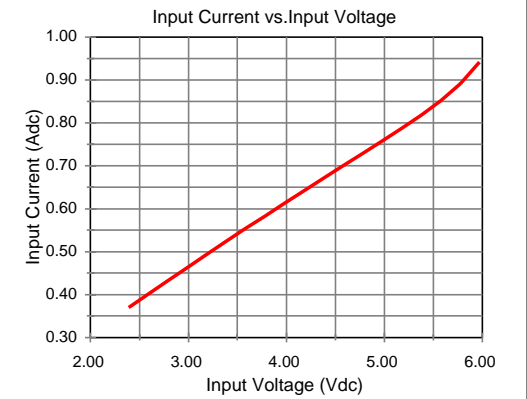
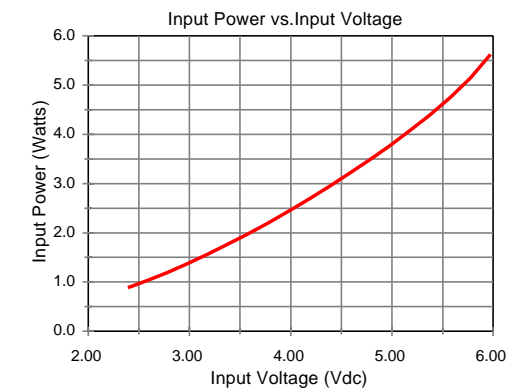
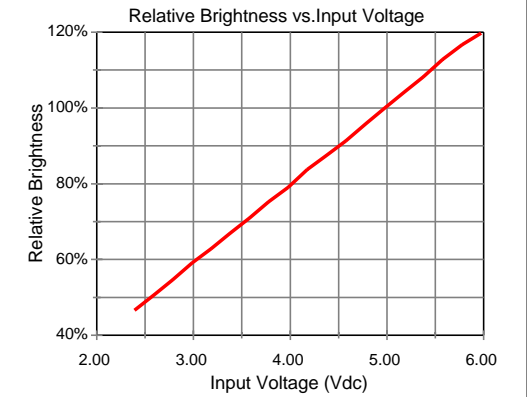
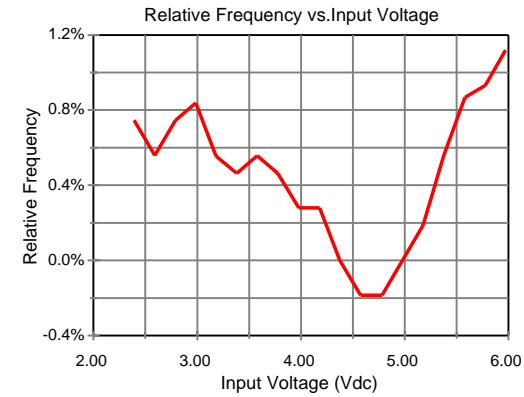
After tube has been allowed to warm-up for 5 minutes Specifications subject to change without notice.



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# E2322

## Typical Performance Curves



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