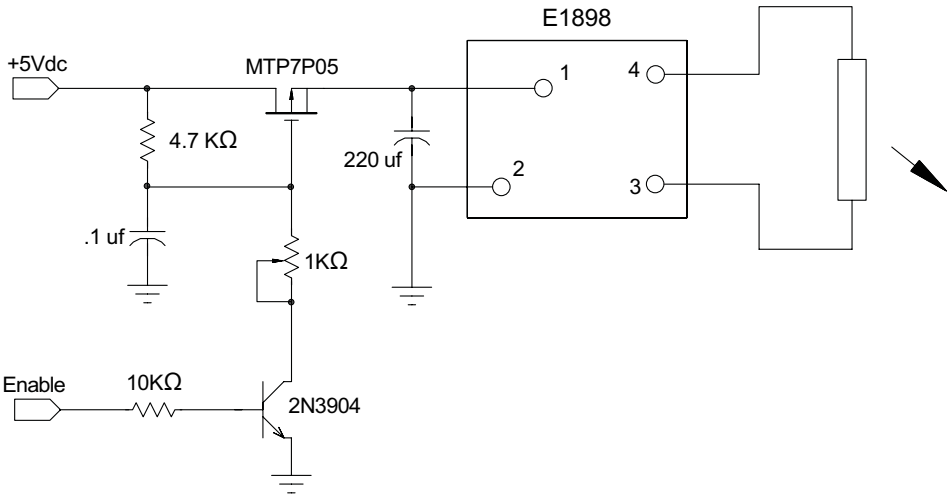
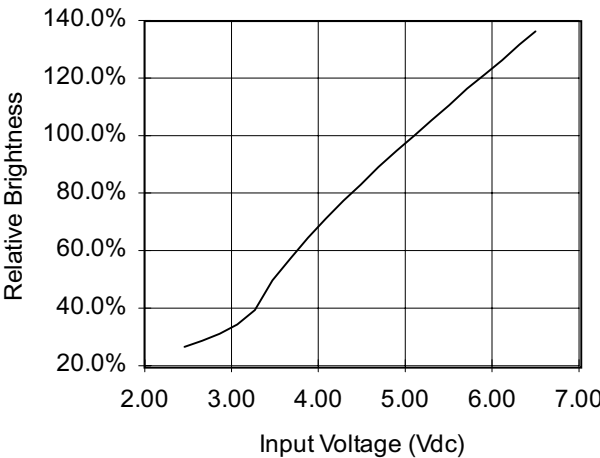


E1898



Optional Dimming Circuit with Enable

Relative Brightness vs. Input Voltage



Endicott Research Group, Inc.
2601 Wayne St., Endicott NY 13760
607-754-9187

Made in U.S.A.



Endicott Research Group, Inc.
2601 Wayne St., Endicott NY 13760
607-754-9187 Fax 607-754-9255
<http://www.ergpower.com>

**Specifications and
Applications Information**

9/3/96

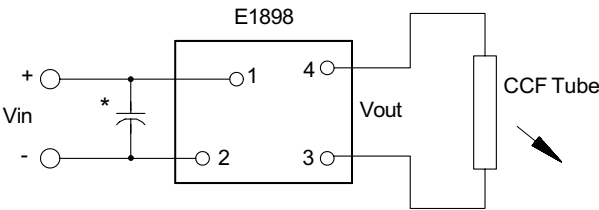
Preliminary

The E1898 (E200II Series) dc to ac inverter is specifically designed to power the Kyocera KCS 3224ASTT-X1 LCD display to a moderate brightness level from a +5 volt dc source.

The E1898's small size, encapsulated package and low input power requirements (typically 1.8 watts) makes it the ideal power source for battery 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 Kyocera KCS 3224ASTT-X1 display. Custom units, providing different inputs, outputs or package refinements are available.

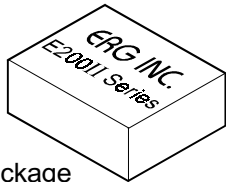
Connection Diagram



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

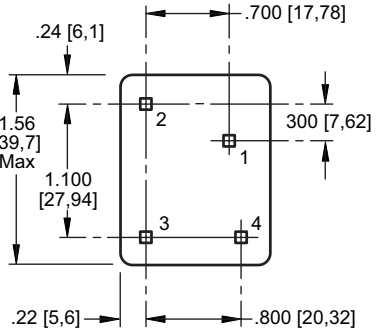
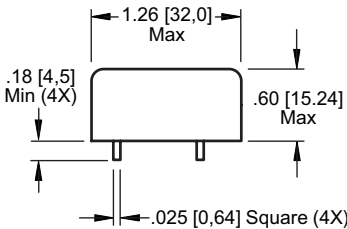
E1898

**Single Tube
DC to AC Inverter**



E200II Package

Package Configuration



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



Absolute Maximum Ratings

Rating	Symbol	Value	Units
Input Voltage Range	Vin	-0.3 to +6.5	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	+2.4 to 5.5	Vdc

Electrical Characteristics

Unless otherwise noted Vin = 5.0 Volts dc and Ta = 25°C

Characteristic	Symbol	Min	Typ	Max	Units
Input Current	Iin	-	0.361	0.397	Adc
Operating Frequency	Fo	28	33	38	KHz
Minimum Output Voltage	Vout (min)	800	-	-	Vrms
Efficiency	η	-	93		%
Output Current	Iout	-	5.31	-	marms
Output Voltage (When Powering a Kyocera KCS 3224ASTT-X1 display)	Vout	-	317	-	Vrms

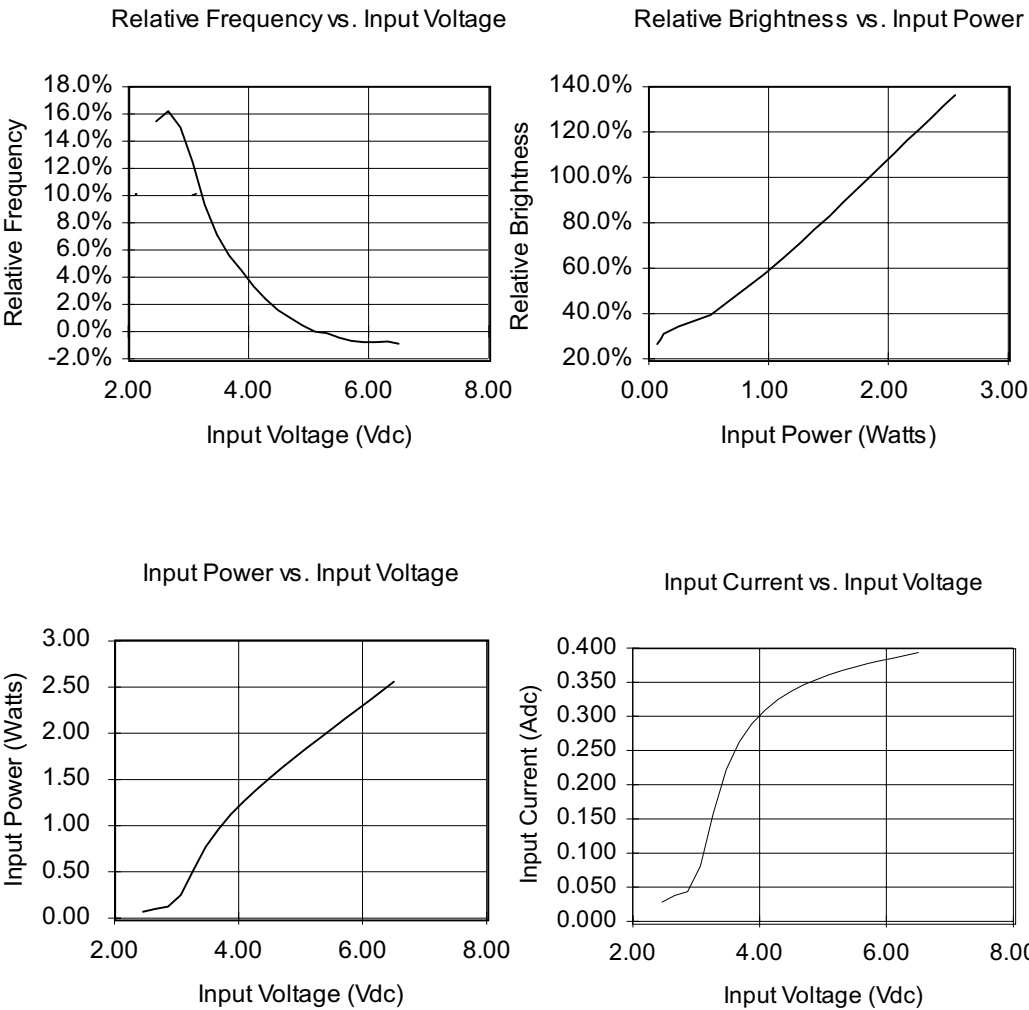
After tube has been allowed to warm-up for 5 minutes

Specifications subject to change without notice



Endicott Research Group, Inc.

Typical Performance Curves



Endicott Research Group, Inc.