

E2644



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**Specifications and
Applications Information**

12/5/01

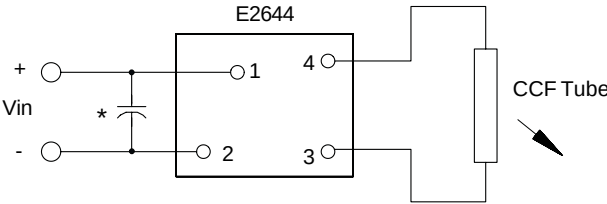
Preliminary

The ERG E2644 (E200II Series) dc to ac inverter is specifically designed to power the Optrex DMF50961 Series LCD display module to a moderate brightness level from a +5 volt dc source.

The E2644'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 Optrex DMF50961 Series displays. Custom units, providing different inputs, outputs or package refinements are available.

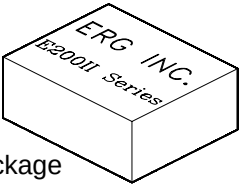
Connection Diagram



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

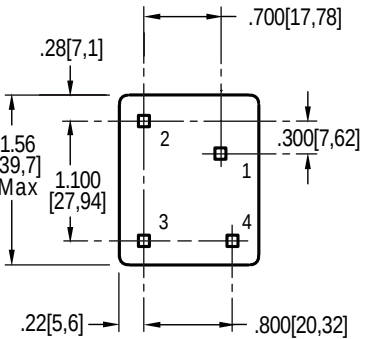
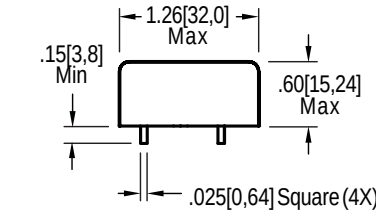
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**Single Tube
DC to AC Inverter**



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 +5.5	Vdc
Operating Temperature	To	-20 to +70	°C
Storage Temperature	Tstg	-40 to +85	°C

Recommended Operating Conditions

Rating	Symbol	Value	Units
Input Voltage	Vin	+2.5 to 5.5	Vdc

Electrical Characteristics

Unless otherwise noted Vin = 5.00 Volts dc and Ta = 25 °C

Characteristic	Symbol	Min	Typ	Max	Units
Input Current	Iin	-	.43	.55	Adc
Operating Frequency	Fo	33	38	43	KHz
Minimum Output Voltage	Vout (min)	1350	-	-	Vrms
Efficiency	η	-	74	-	%
Output Current	Iout	-	5	-	marms
Output Voltage (When Powering a load simulating the referenced display)	Vout	-	320	-	Vrms

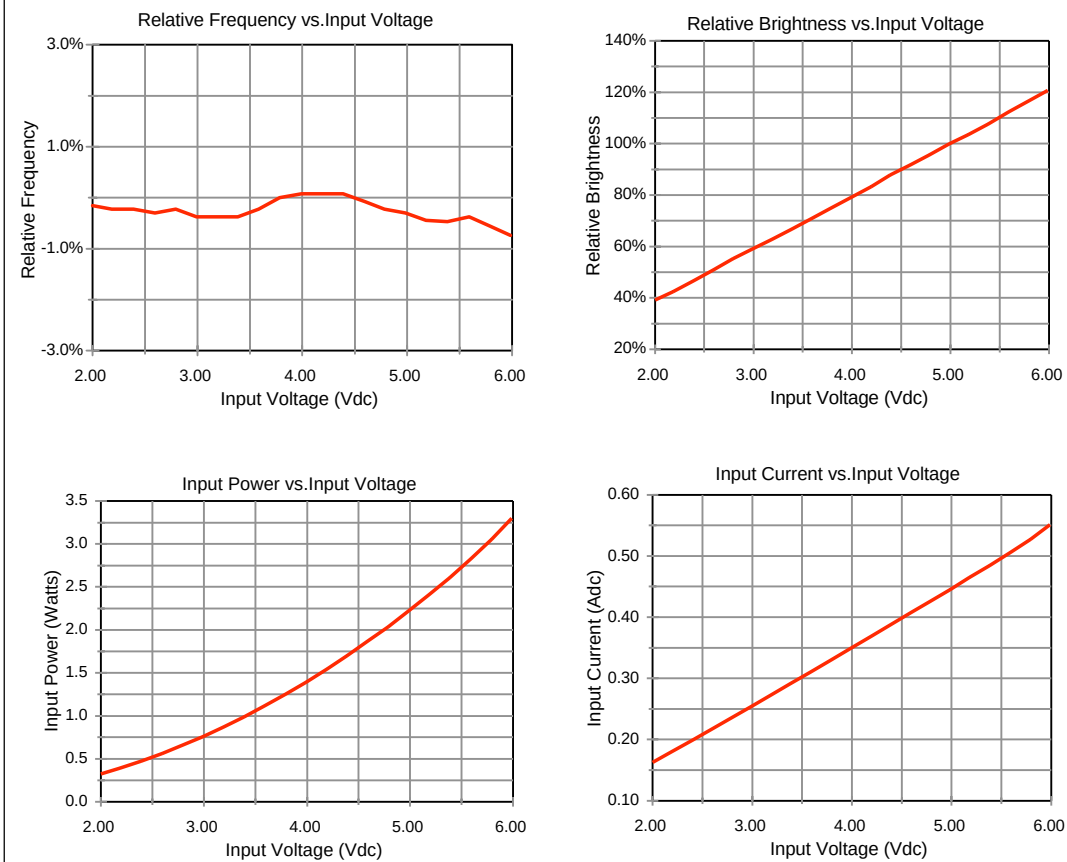
After tube has be allowed to warm-up for 5 minutes

Specifications subject to change without notice.



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Typical Performance Curves



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