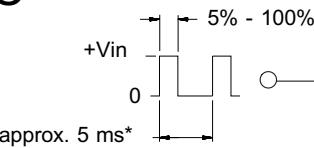
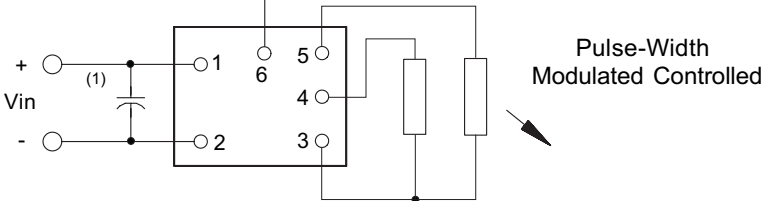


E2474C

3 Dimming Options

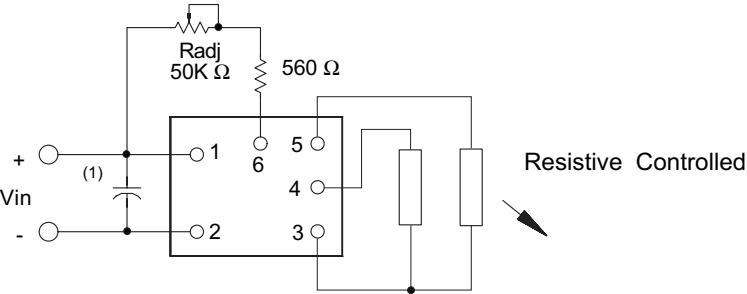


* should be selected to be compatible with LCD and display driver



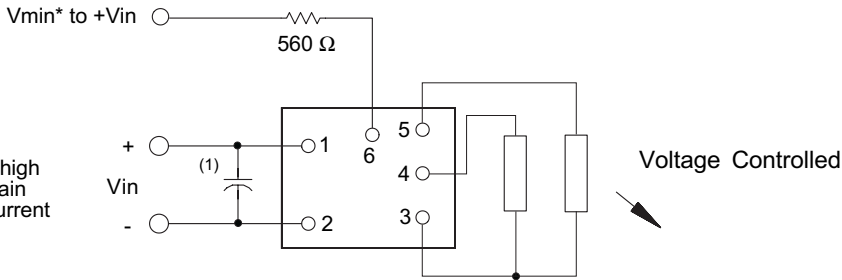
Pulse-Width Modulated Controlled

* value should be low enough to maintain minimum tube current at minimum brightness



Resistive Controlled

* Vmin should be high enough to maintain minimum tube current



Voltage Controlled

Note 1 Input bypass capacitor (10uf - 100uf) may be required to reduce reflected ripple.



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Made in U.S.A.



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<http://www.ergpower.com>

Specifications and Applications Information

11/22/00

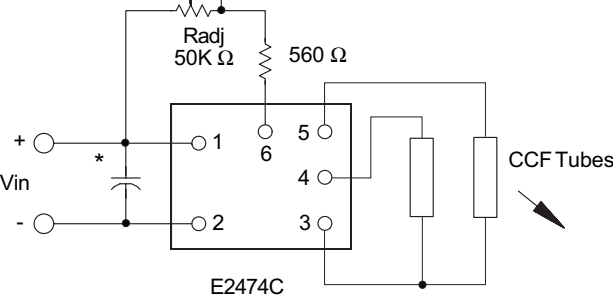
Preliminary

The E2474C (E200II Series) dc to ac inverter is specifically designed to power the Toshiba LTM15C423S/428S LCD display to a moderate brightness level from a +12 volt dc source.

The E2474C's small size and 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 Toshiba LTM15C423S/428S LCD display. Custom units, providing different inputs, outputs or package refinements are available.

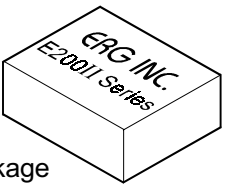
Connection Diagram



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

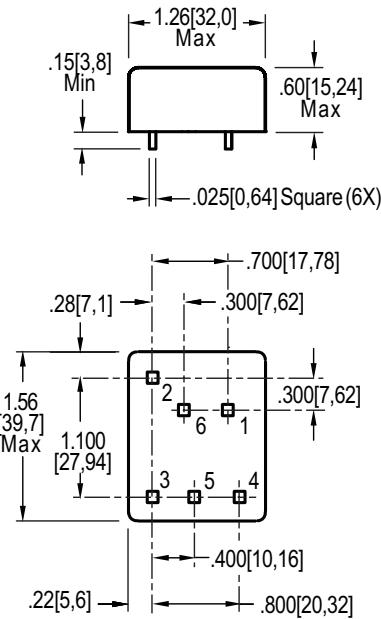
E2474C

Two Tube DC to AC Inverter



E200II Package

Package Configuration



- 1. Vin(+)
- 2. Vin(-)
- 3. Common
- 4. Vout(AC)
- 5. Vout(AC)
- 6. Control



E2474C

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	-	0.80	0.92	Adc
Operating Frequency	Fo	25	30	35	KHz
Minimum Output Voltage	Vout (min)	1500	-	-	Vrms
Efficiency	η	-	84	-	%
Output Current per tube	Iout	-	6.0	-	marms
Output Voltage (When Powering a load simulating the referenced display)	Vout	-	670	-	Vrms

After tube has be allowed to warm-up for 5 minutes
External Disable Circuit shown on page 3.

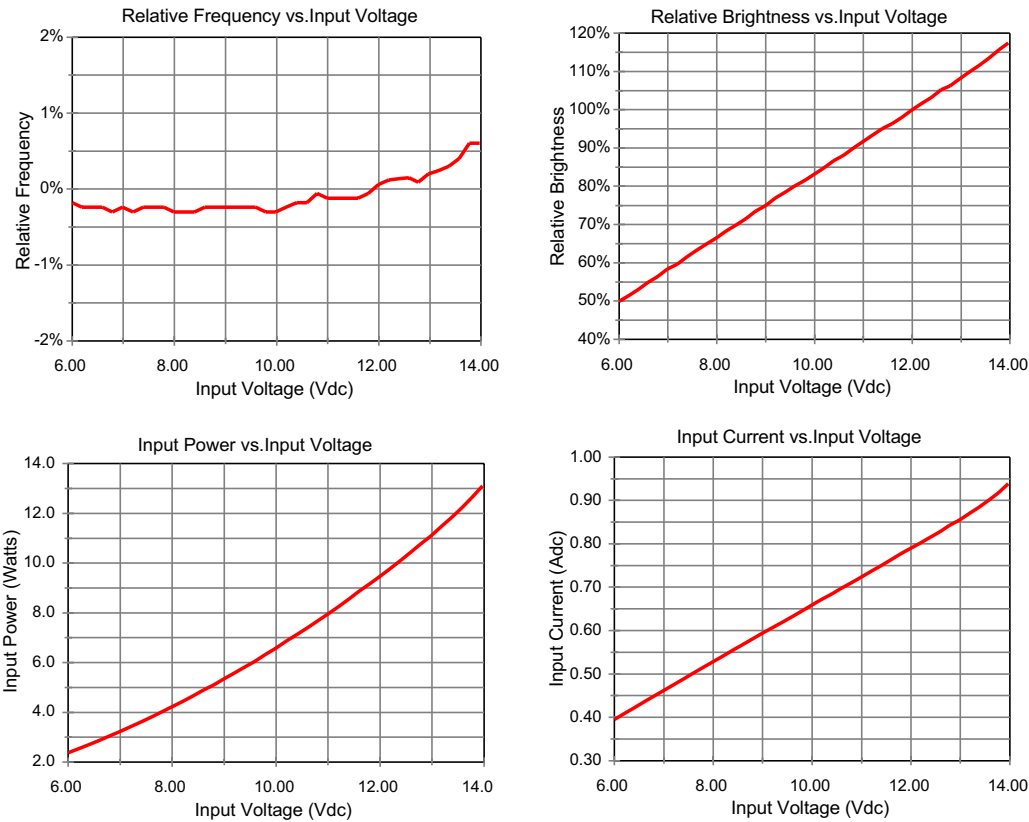
Specifications subject to change without notice.



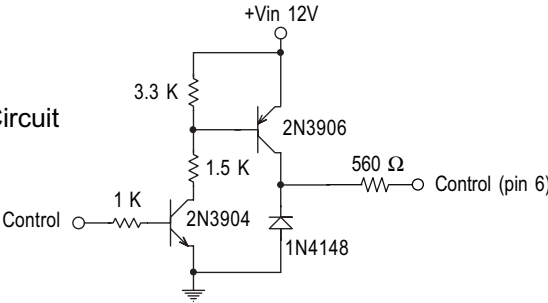
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Typical Performance Curves

E2474C



Disable Circuit



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