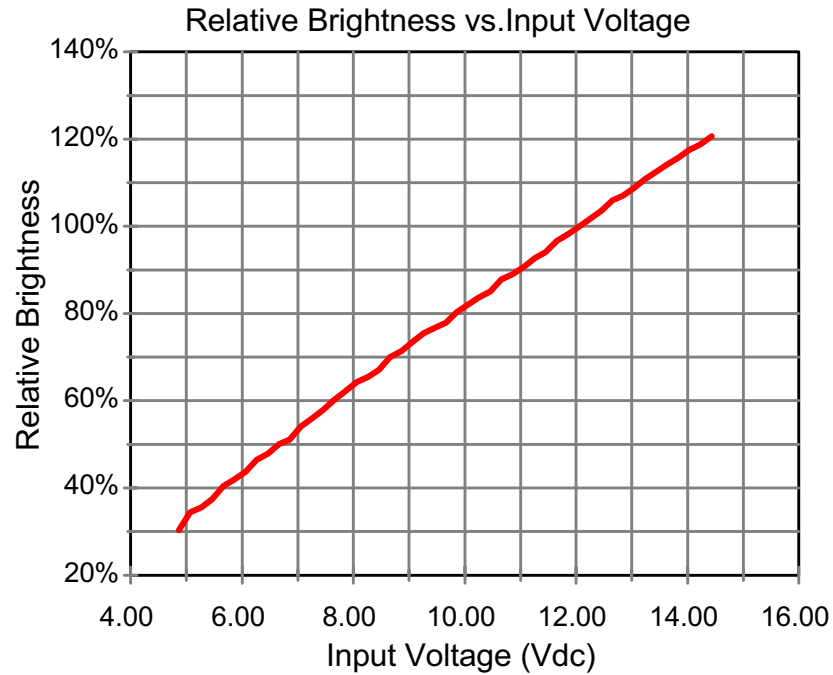


E2254



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

Made in U.S.A.



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

Specifications and Applications Information

6/4/99

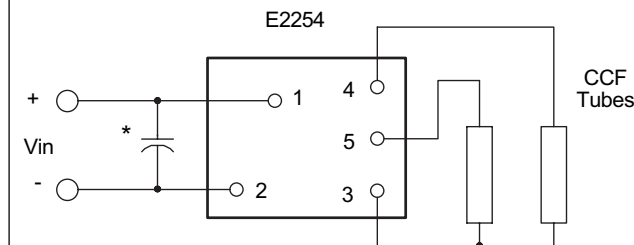
Preliminary

The E2254 (E200II Series) dc to ac inverter is specifically designed to power the Toshiba LTM10C209A LCD display to a moderate brightness level from a +12 volt dc source.

The E2254's small size and encapsulated package makes it the ideal power source for applications where size, high efficiency and reliability are critical.

This standard inverter is designed to satisfy the most common cold-cathode lighting requirements for the LTM10C209A display. Custom units, providing different inputs, outputs or package refinements are available.

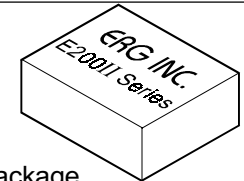
Connection Diagram



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

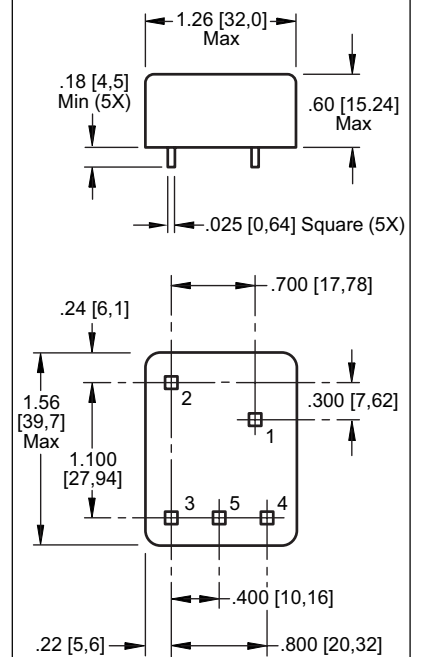
E2254

Two Tube DC to AC Inverter



E200 Package

Package Configuration



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



Absolute Maximum Ratings

Rating	Symbol	Value	Units
Input Voltage Range	V_{in}	-0.3 to +13.2	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}	+5 to 13.2	Vdc

Electrical Characteristics

Unless otherwise noted $V_{in} = 12.00$ Volts dc and $T_a = 25$ °C

Characteristic	Symbol	Min	Typ	Max	Units
Input Current	I_{in}	-	.60	.68	Adc
Operating Frequency	F_o	24	28	32	KHz
Minimum Output Voltage	$V_{out} (min)$	1500	-	-	V_{rms}
Efficiency	η	-	92	-	%
Output Current (per tube)	I_{out}	-	6	-	marms
Output Voltage (when Powering a load equivalent to the referenced display)	V_{out}	-	550	-	V_{rms}

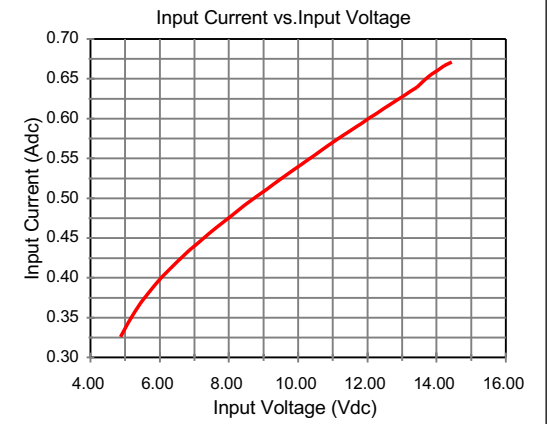
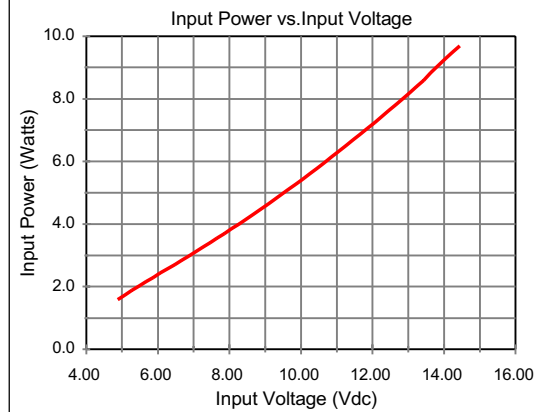
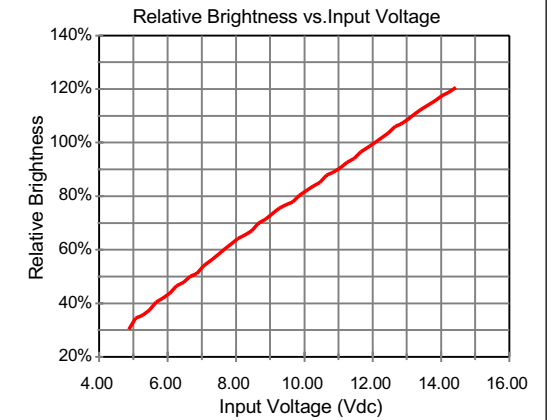
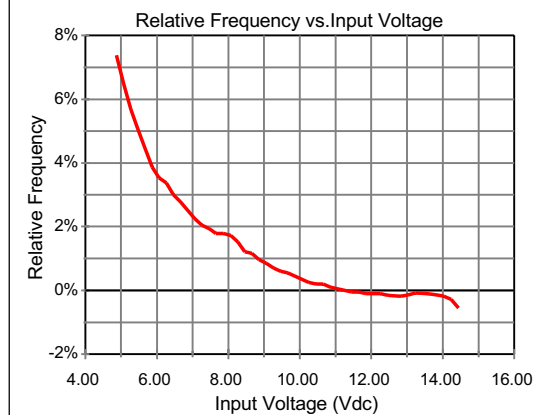
After tube has been allowed to warm-up for 5 minutes

Specifications subject to change without notice



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Typical Performance Curves



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