

E2741



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Specifications and Applications Information

05/14/02

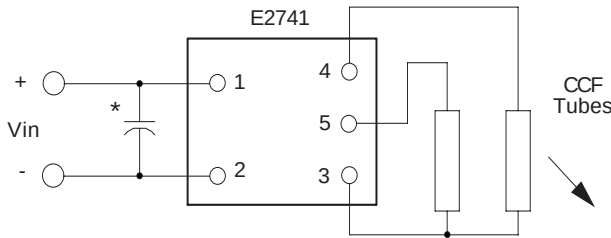
Preliminary

The ERG E2741 (E200II Series) dc to ac inverter is specifically designed to power the Panasonic EDTCB03Q2F LCD display module to a moderate brightness level from a +12 volt dc source.

The E2741'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 Panasonic EDTCB03Q2F display. Custom units, providing different inputs, outputs or package refinements are available.

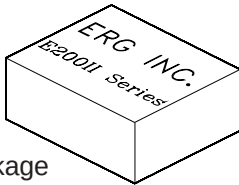
Connection Diagram



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

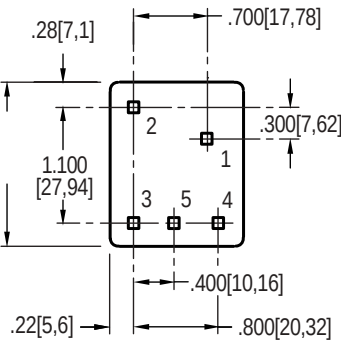
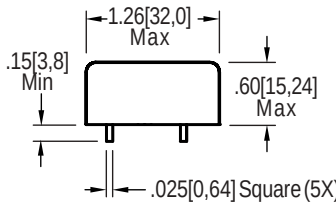
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Two Tube DC to AC Inverter



E200 Package

Package Configuration



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



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	-	.49	.60	Adc
Operating Frequency	Fo	30	35	40	KHz
Minimum Output Voltage	Vout (min)	1300	-	-	Vrms
Efficiency	h	-	89	-	%
Output Current (per ccft)	Iout	-	5	-	marms
Output Voltage (note 1) (When powering the Panasonic EDTCB03Q2F display)	Vout	-	600	-	Vrms

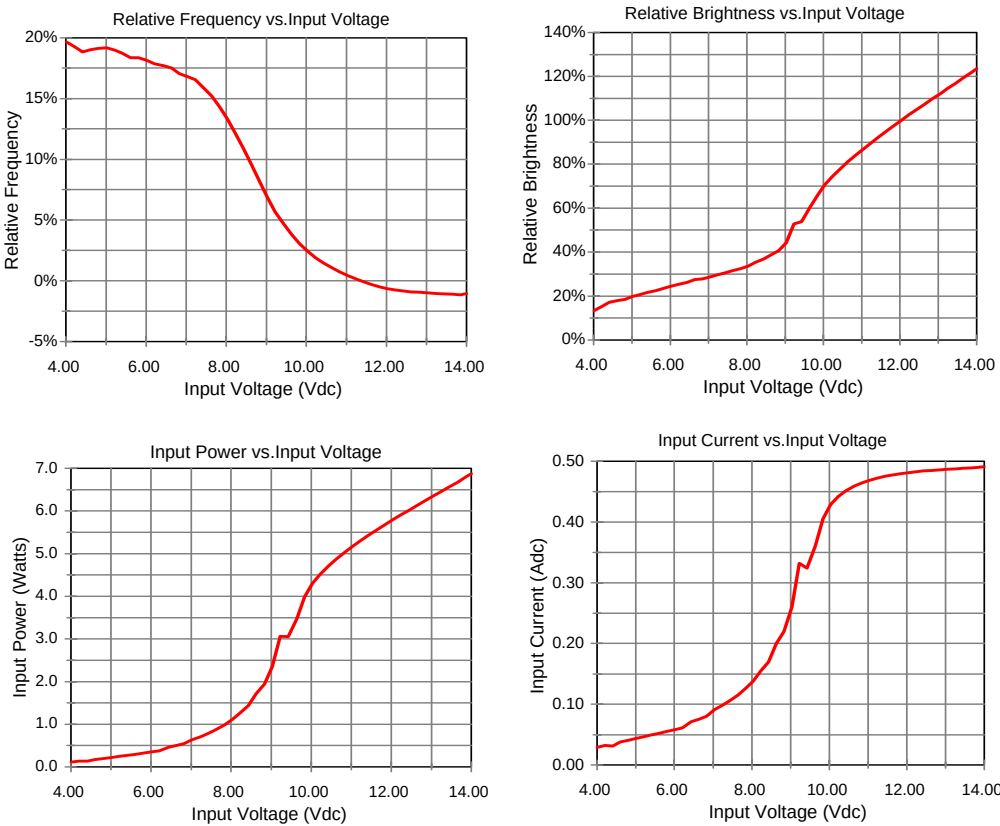
After tube has be allowed to warm-up for 5 minutes Specifications subject to change without notice.

Note 1: The output voltage defined by the display specifications at the typical output current of 4 marms is 600 Vrms.



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Typical Performance Curves



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