

E2027



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Specifications and Applications Information

03/21/01

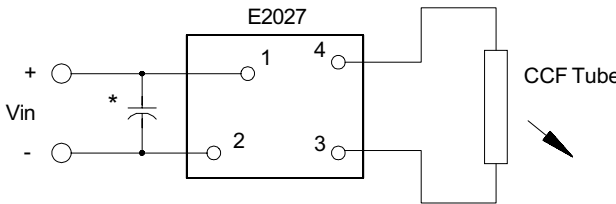
Preliminary

The ERG E2027 (E200II Series) dc to ac inverter is specifically designed to power the Hitachi SP14Q001 LCD display module to a moderate brightness level from a +5 volt dc source.

The E2027's small size, encapsulated package and low input power requirements makes it the ideal power source for battery applications where small size, high efficiency and reliability are critical.

This standard inverter is designed to satisfy the most common cold-cathode lighting requirements for the SP14Q001 display. Custom units, providing different inputs, outputs or package refinements are available.

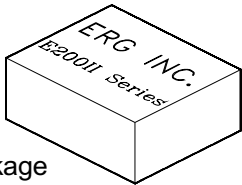
Connection Diagram



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

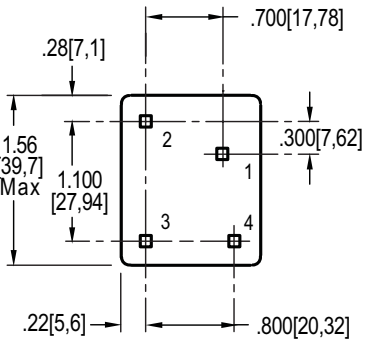
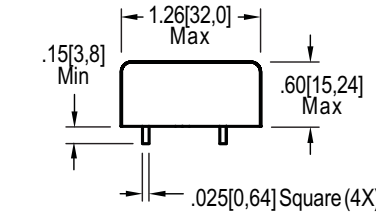
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Single Tube DC to AC Inverter



E200 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	0 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

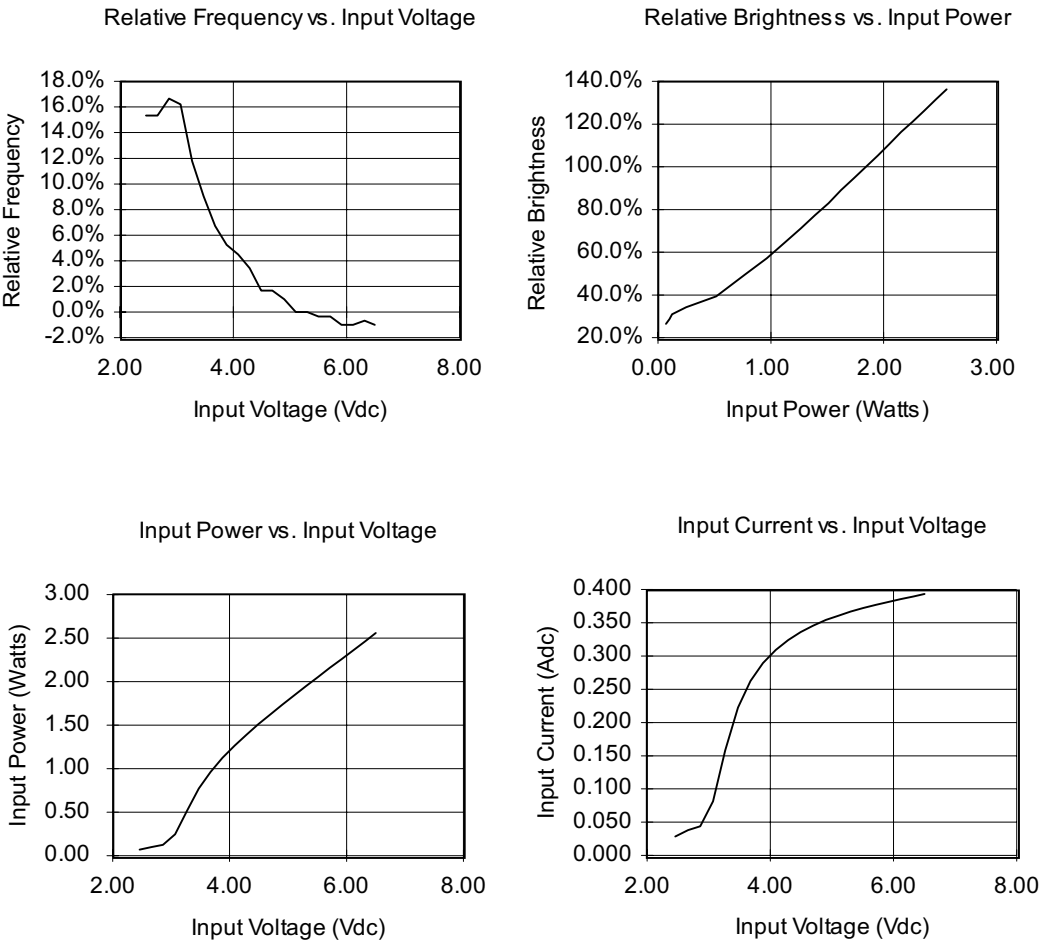
Characteristic	Symbol	Min	Typ	Max	Units
Input Current	lin	-	.42	.48	Adc
Operating Frequency	Fo	28	33	38	KHz
Minimum Output Voltage	Vout (min)	1100	-	-	Vrms
Efficiency	η	-	71	-	%
Output Current	Iout	-	5	-	marms
Output Voltage (When Powering a Hitachi SP14Q001 display)	Vout	-	300	-	Vrms

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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