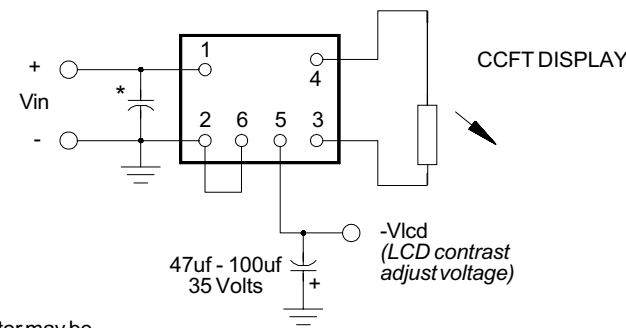


E2536

Connection Diagram



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



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Specifications and
Applications Information

03/27/01

Preliminary

The ERG E2536 (E200IID Series) dc to ac inverter is specifically designed to power the EDT EG32E00NCWU display module to a moderate brightness level from a +5 volt dc source. This unique dc to ac inverter includes a low voltage, isolated dc output (27.5 volts dc) which can be used to supply the negative contrast voltage required by this display.

The E2536's small size, encapsulated package makes it the ideal power source for applications where small size, high efficiency and reliability are critical.

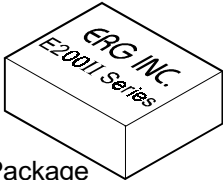
This inverter is designed to satisfy the most common cold-cathode lighting requirements for the EDT EG32E00NCWU display. Custom units, providing different inputs, outputs or package refinements are available.

Product Features

- ✓ Dc Output Voltage for Contrast Adjust
- ✓ Small Package Size
- ✓ High Efficiency
- ✓ Eliminates need for separate Voltage Source
- ✓ Made in U.S.A.

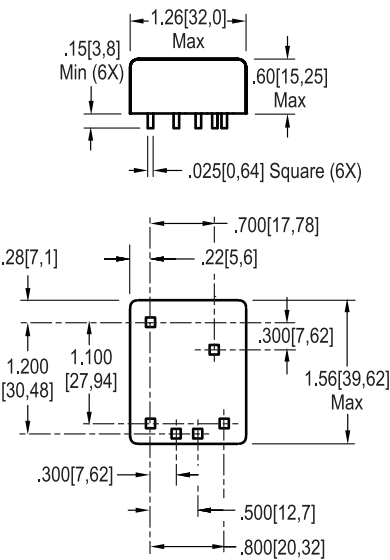
E2536

Single Tube
DC to AC Inverter



E200IID Package

Package Configuration



- | | |
|-------------|----------------|
| 1. Vin(+) | 4. Vout(AC) |
| 2. Vin(-) | 5. Vout(DC)(-) |
| 3. Vout(AC) | 6. Vout(DC)(+) |

E2536

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	+3.5 to 5.5	Vdc

Electrical Characteristics

Unless otherwise noted Vin = 5.00 Volts dc, ILoaddc = -20 mADC and Ta = 25 °C

Characteristic	Symbol	Min	Typ	Max	Units
Input Current	Iin	-	.56	.65	ADC
Operating Frequency	Fo	39	44	49	KHz
Minimum Output Voltage	Vout (min)	830	-	-	Vrms
Contrast Adjust Voltage (@ 20mA)	Vlcd	-24.5	-27.5	-30.0	Vdc
Efficiency	η	-	82	-	%
Output Current	Iout	-	5	-	mA
Output Voltage (When Powering a Load Simulating the referenced display display)	Vout	-	240 Specified (350 Measured)	-	Vrms

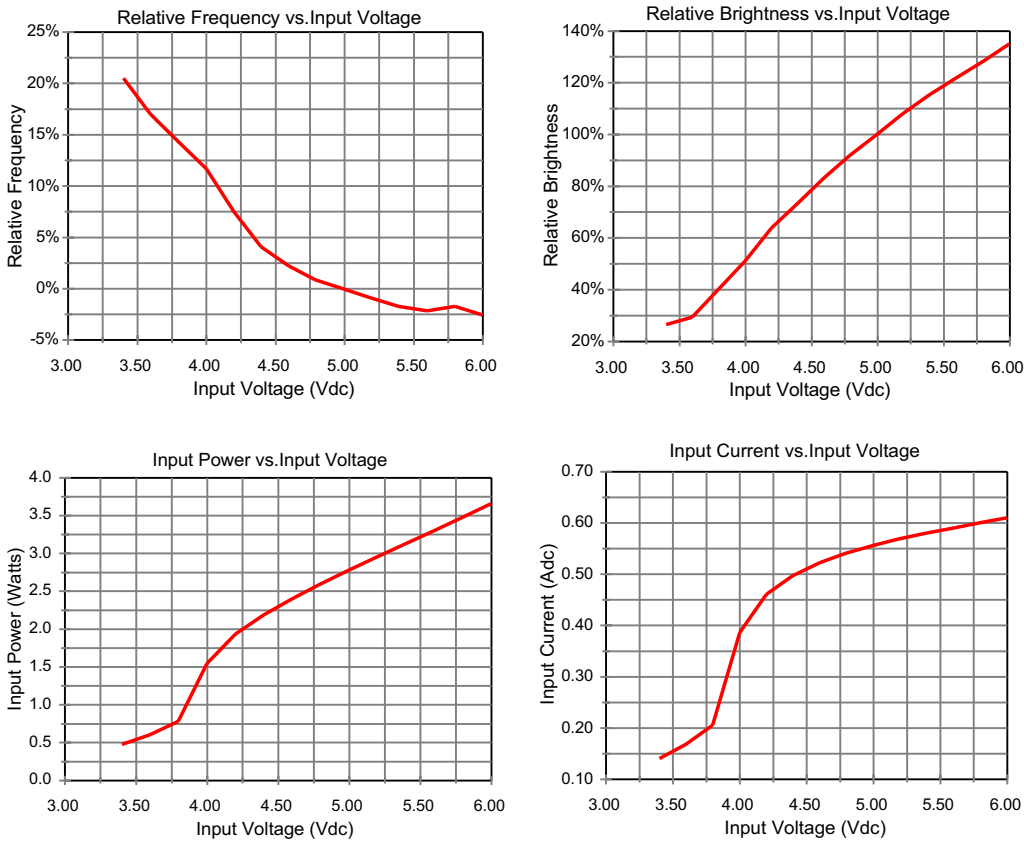
After tube has been allowed to warm-up for 5 minutes Specifications subject to change without notice.



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E2536

Typical Performance Curves



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