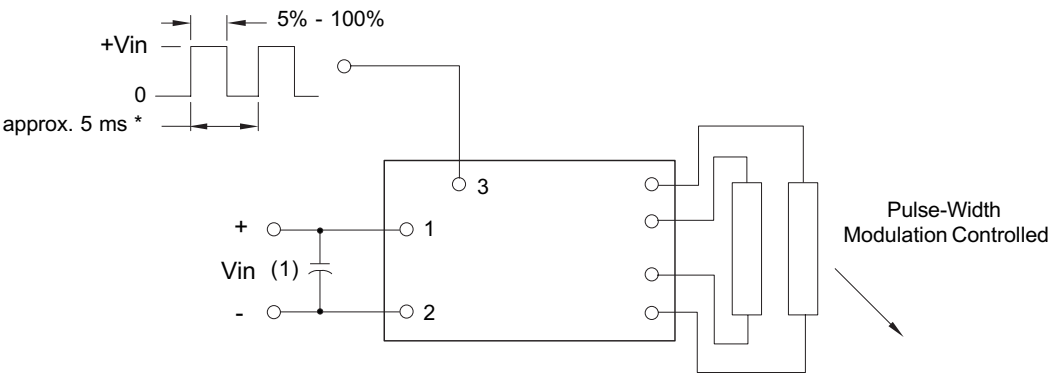


L2384

Dimming Option



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

Note 1 Input by-pass capacitor (25uf - 100uf) may be required to reduce reflected ripple.



Endicott Research Group, Inc.  
2601 Wayne St., Endicott NY 13760  
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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

05/16/2000 Preliminary

The ERG L2384 (*8m Class*) low profile dc to ac inverter is specifically designed to power the LG LB121S1-A2 LCD display module to a moderate brightness level from a +12 volt dc source.

This low profile inverter features:

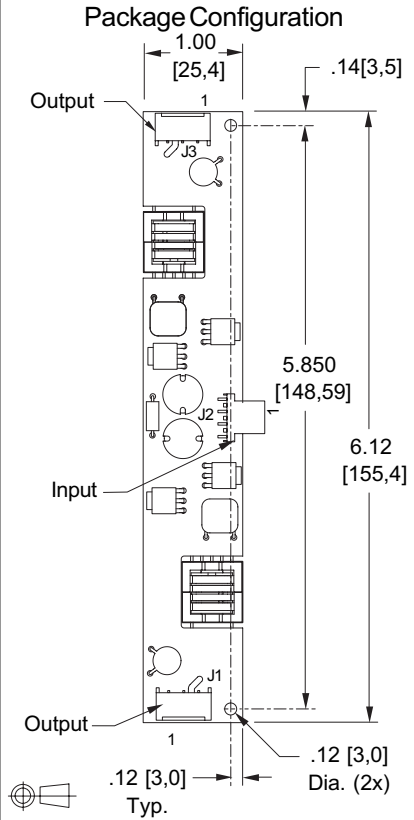
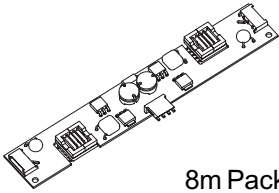
- ✓ Less Than 8 mm in Height
- ✓ LCD Module Specific
- ✓ Display Compatible Output Connector
- ✓ Firm Specifications
- ✓ Application Information
- ✓ Designed, Manufactured and Supported in the USA
- ✓ Custom Input and Output Voltages
- ✓ Flexible System Interface
- ✓ Notebook Display Head Compatible

Pin Descriptions

| Input Connector     |         | Output Connectors        |          |
|---------------------|---------|--------------------------|----------|
| MOLEX<br>22-05-3041 |         | JST<br>SM02(8.0)B-BHS1TB |          |
| J2-1                | Vin     | J1-1                     | ACout    |
| J2-2                | GND     | J1-2                     | NC       |
| J2-3                | Control | J1-3                     | ACcommon |
| J2-4                | NC      | J3-1                     | ACout    |
|                     |         | J3-2                     | NC       |
|                     |         | J3-3                     | ACcommon |

L2384

8m Class  
DC to AC Inverter



L2384

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    | +10 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        | -    | .92 | 1.1 | Adc   |
| Operating Frequency                                                              | Fo         | 34   | 39  | 44  | KHz   |
| Minimum Output Voltage                                                           | Vout (min) | 1500 | -   | -   | Vrms  |
| Efficiency                                                                       | η          | -    | 91  | -   | %     |
| Output Current per tube                                                          | Iout       | -    | 7.5 | -   | marms |
| Output Voltage<br>(when Powering a load<br>simulating the referenced<br>display) | Vout       | -    | 670 | -   | Vrms  |
| Pin3 Input Current Requirement                                                   | -          | -    | 14  | -   | madc  |

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

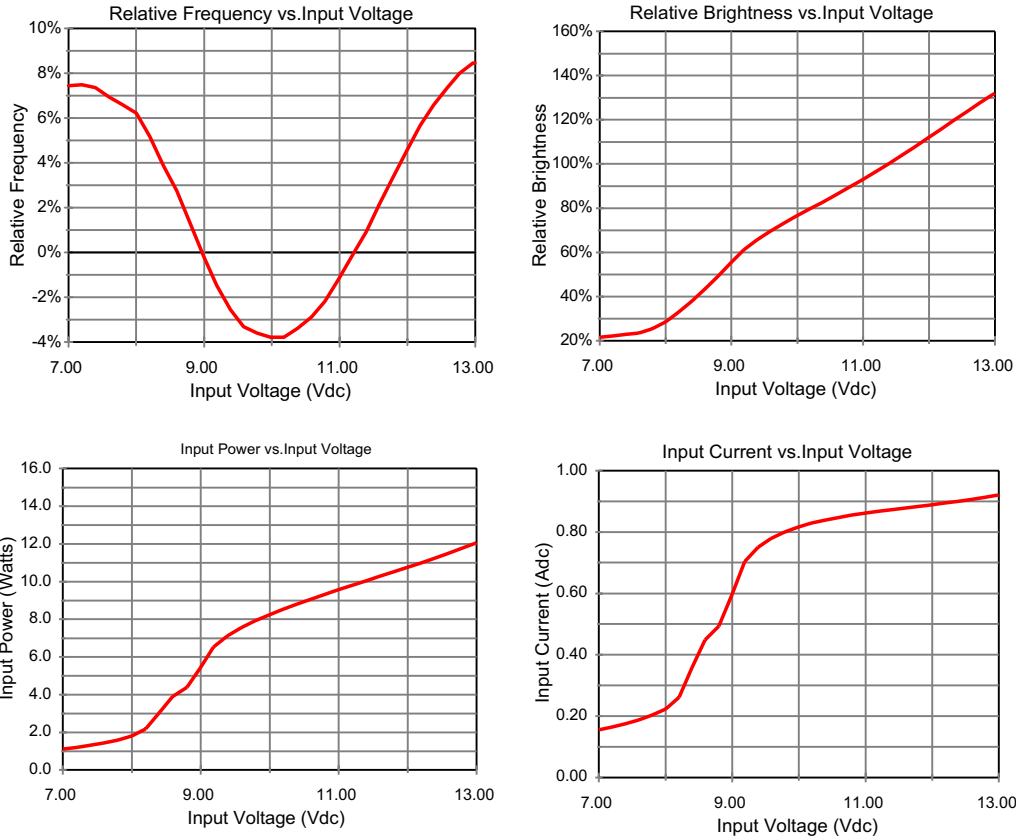
Specifications subject to change without notice.



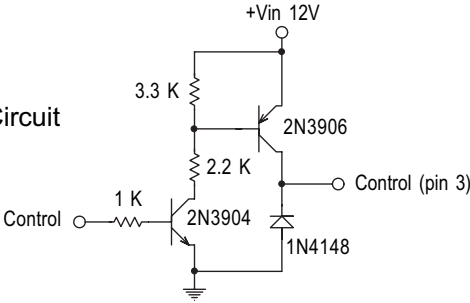
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Typical Performance Curves

L2384



Disable Circuit



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