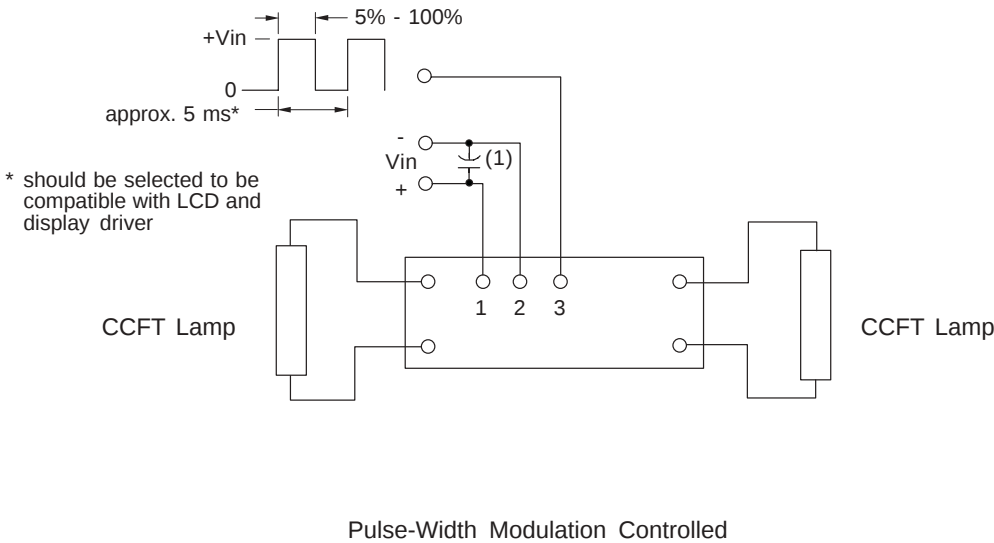


K2607

Dimming Option  
(valid when the "C" jumper is removed)



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



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Specifications and  
Applications Information

09/21/01

Preliminary

The ERG K2607 (**8m Class**) low profile dc to ac inverter is specifically designed to power the Optrex T51382D064J-FW-P-AA, T51384L079J-FW-P-AA LCD display module to a moderate brightness level from a +12 volt dc source.

This low profile inverter features:

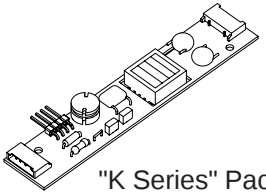
- ✓ Less Than 8 mm in Height
- ✓ LCD Module Specific
- ✓ Display Compatible Output Connector
- ✓ Firm Specifications
- ✓ Application Information
- ✓ Designed, Manufactured and Supported in the USA
- ✓ Custom Input and Output Voltages
- ✓ Flexible System Interface
- ✓ Notebook Display Head Compatible

Pin Descriptions

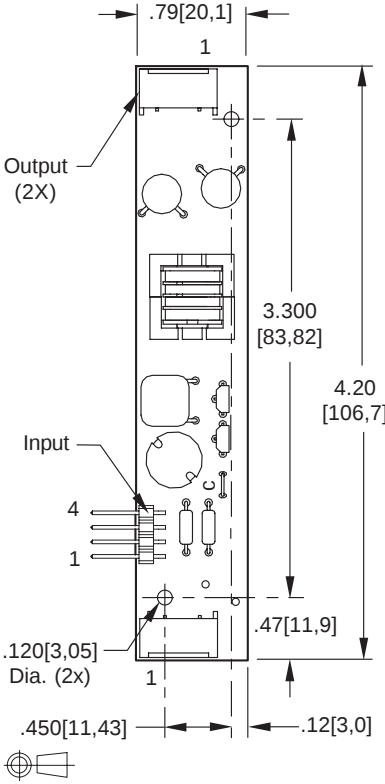
| Input Connector                                                                       | Output Connectors                   |                                     |
|---------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|
| 4 pins are 0.315" [8,00] Long, 0.025" [0,63] Square and are on 0.100" [2,54] Centers. | JST<br>SM02(8.0)B-BHS1TB            |                                     |
| J1-1 Vin(+)<br>J1-2 GND<br>J1-3 Control *<br>J1-4 NC                                  | J2-1 ACout<br>J2-2 NC<br>J2-3 ACout | J3-1 ACout<br>J3-2 NC<br>J3-3 ACout |
| * Valid when the "C" Jumper is removed                                                |                                     |                                     |

K2607

8m Class  
2 Tube DC to AC Inverter



Package Configuration



K2607

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        | -    | .46 | .53 | Adc   |
| Operating Frequency                                                                          | Fo         | 44   | 49  | 54  | KHz   |
| Minimum Output Voltage                                                                       | Vout (min) | 1000 | -   | -   | Vrms  |
| Efficiency                                                                                   | η          | -    | 87  | -   | %     |
| Output Current (per tube)                                                                    | Iout       | -    | 6   | -   | marms |
| Output Voltage (per tube)<br>(When powering a load<br>simulating the referenced<br>display.) | Vout       | -    | 400 | -   | Vrms  |
| Pin3 Input Current Requirement                                                               | -          | -    | 6   | -   | madc  |

After tube has been allowed to warm-up for 5 minutes. Specifications subject to change without notice.  
External Disable Circuit shown on page 3.

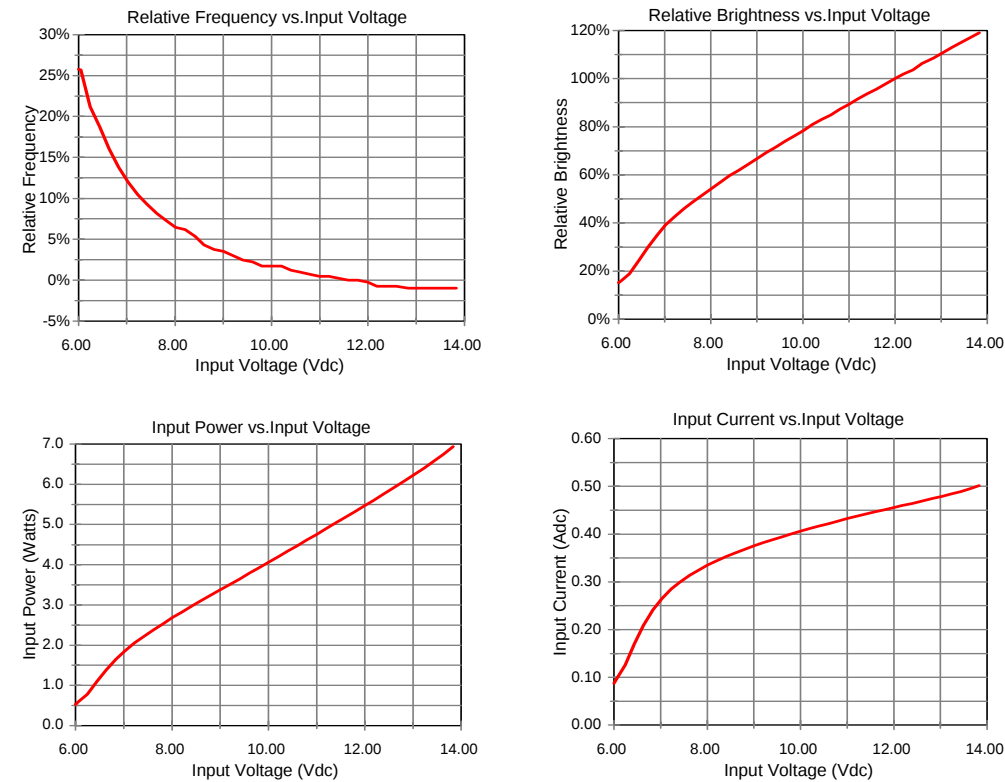


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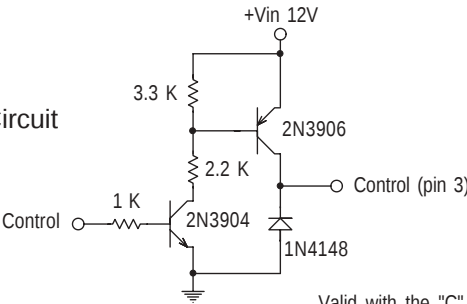
Made in USA

Typical Performance Curves

K2607



Disable Circuit



Valid with the "C" jumper removed



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