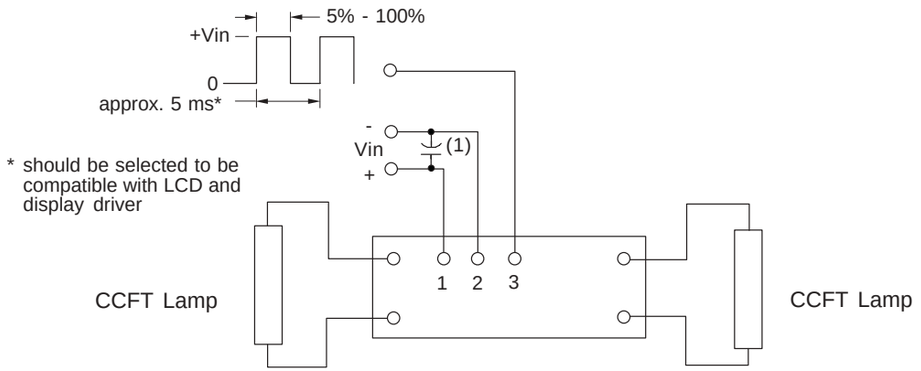
Dimming Option



Pulse-Width Modulation Controlled

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

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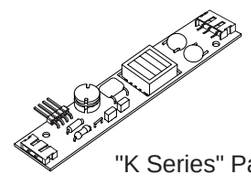
K2496

Specifications and Applications Information

01/16/02 Preliminary

8m Class
2 Tube DC to AC Inverter

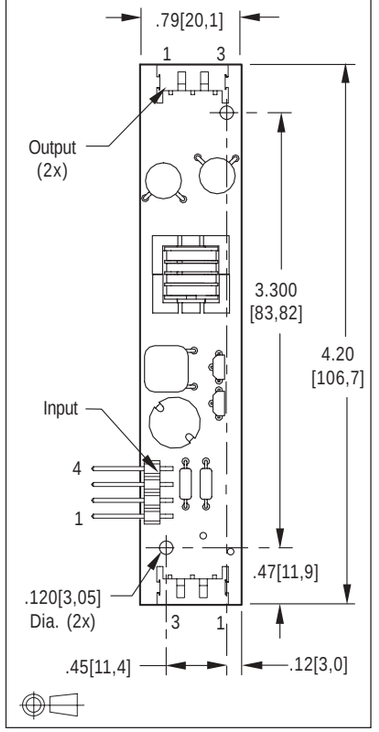

"K Series" Package

The ERG K2496 **(8m Class)** low profile dc to ac inverter is specifically designed to power the Kyocera KCS077VG2EA-A03 LCD display module to a moderate brightness level from a +5 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

Package Configuration



Pin Descriptions

Input Connector	Output Connectors
Molex 22-05-3041	Honda QZ-19-A3MYL
J1-1 Vin(+) J1-2 GND J1-3 Control J1-4 N/C	J2-1 ACout J3-1 ACout J2-2 NC J3-2 N/C J2-3 ACout J3-3 ACout

Absolute Maximum Ratings

Rating	Symbol	Value	Units
Input Voltage Range	Vin	-0.3 to +6	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

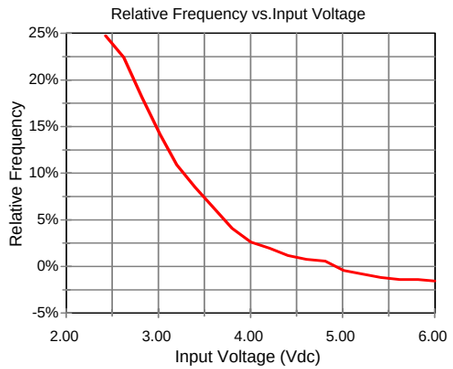
Characteristic	Symbol	Min	Typ	Max	Units
Input Current	Iin	-	1.1	1.3	Adc
Operating Frequency	Fo	35	40	45	KHz
Minimum Output Voltage	Vout (min)	1000	-	-	Vrms
Efficiency	η	-	73	-	%
Output Current (per tube)	Iout	-	5	-	marms
Output Voltage (per tube) (When powering a load simulating the referenced display.)	Vout	-	400	-	Vrms
Pin3 Input Current Requirement	-	-	11	-	madc

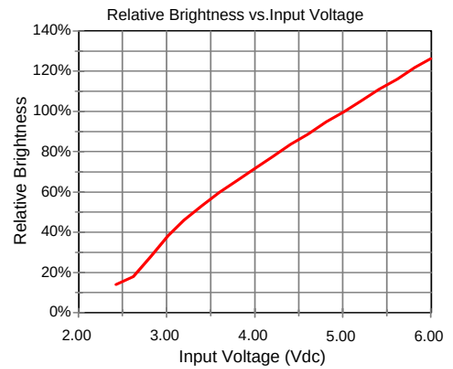
After tube has been allowed to warm-up for 5 minutes. Specifications subject to change without notice.
External Disable Circuit shown on page 3.

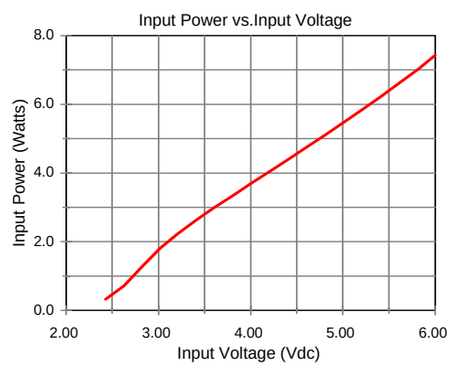
Endicott Research Group, Inc.

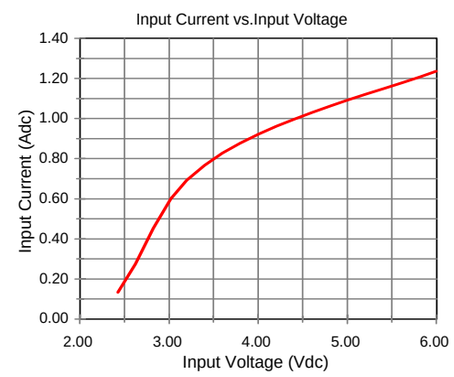
Made in USA

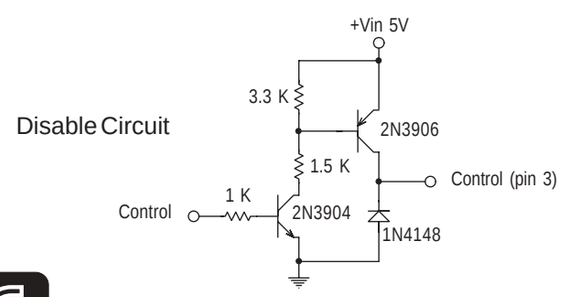
Typical Performance Curves











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