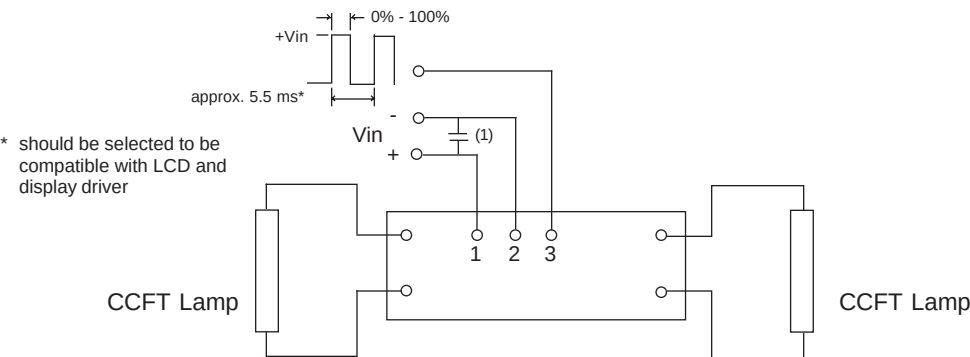


K1841

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



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

Pulse-Width Modulation Controlled

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

K1841



Endicott Research Group, Inc.
2601 Wayne St., Endicott NY 13760
607-754-9187 Fax 607-754-9255

Specifications and
Applications Information

10/03/96

Preliminary

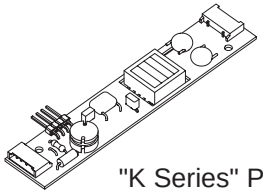
The ERG K1841 (*8m Class*) low profile dc to ac inverter is specifically designed to power the Sharp LQ10D344 LCD display module to a moderate brightness level from a +12 volt dc source.

This low profile inverter features:

- ✓ Less Than 8 mm in Height
- ✓ LCD Module Specific
- ✓ Display Compatible Output Connector
- ✓ High Efficiency (85%)
- ✓ Firm Specifications
- ✓ Application Information
- ✓ Made in U.S.A.
- ✓ Factory Support
- ✓ Custom Input and Output Voltages
- ✓ Flexible System Interface
- ✓ Notebook Display Head Compatible

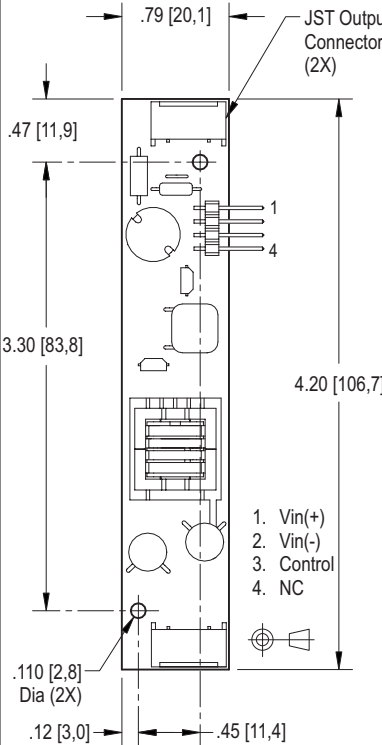
K1841

8m Class
2 Tube DC to AC Inverter



"K Series" Package

Package Configuration



Absolute Maximum Ratings

Rating	Symbol	Value	Units
Input Voltage Range	Vin	-0.3 to 15	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	+8 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	-	0.41	0.45	Adc
Operating Frequency	Fo	34	39	44	KHz
Minimum Output Voltage	Vout (min)	1250	-	-	Vrms
Efficiency	η	-	85		%
Output Current (per Tube)	Iout	-	4.2	-	mArms
Output Voltage	Vout	-	500	-	Vrms

After tube has been allowed to warm-up for 5 minutes

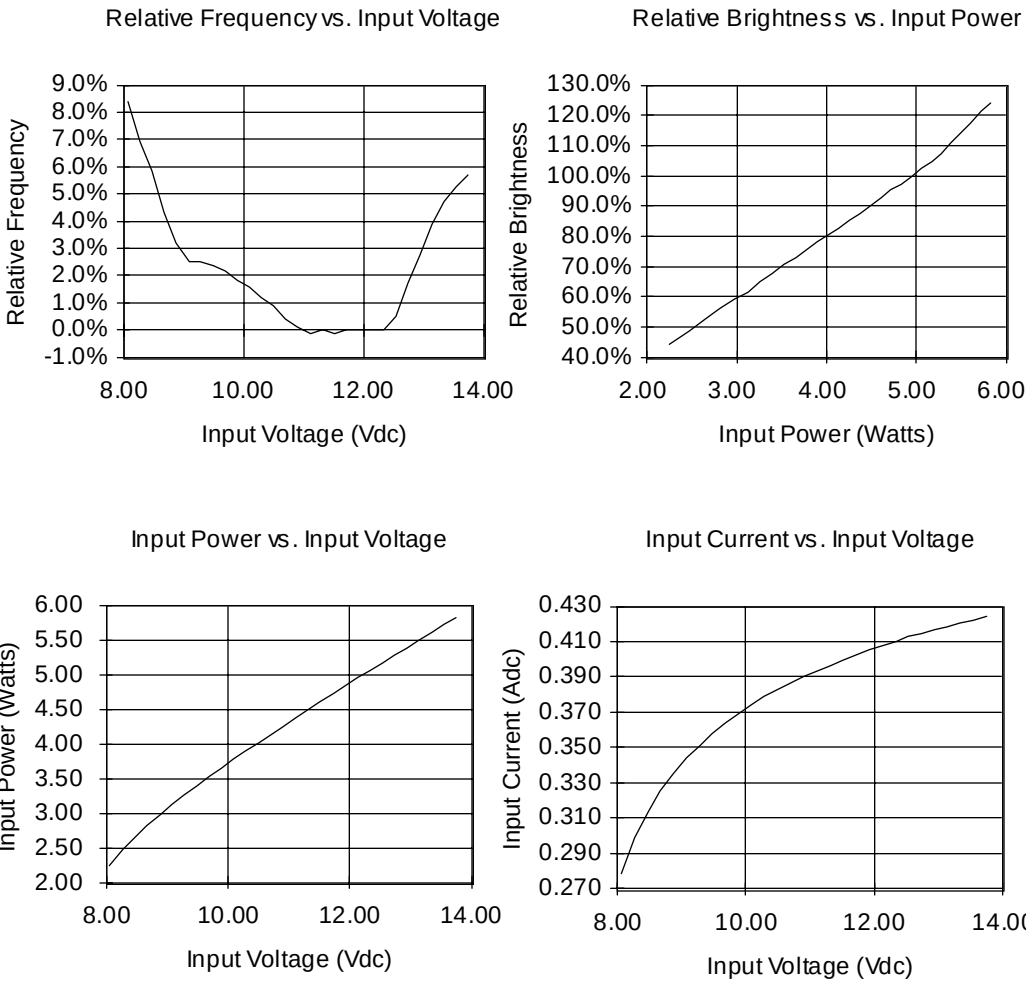
Specifications subject to change without notice



Endicott Research Group, Inc.

Made in USA

Typical Performance Curves



Endicott Research Group, Inc.