

3 Dimming Options

(valid when the "C" jumper is removed)

approx. 1.5 ms*

0% - 100%

+Vin

Vin

(1)

1 2 3

Pulse-Width Modulated Controlled

+Vin

100 Kohms*

Vin

(1)

1 2 3

Resistive Controlled

Vmin* to +Vin

Vin

(1)

1 2 3

Voltage Controlled

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

* value should be low enough to maintain minimum tube current at minimum brightness

* Vmin should be high enough to maintain minimum tube current

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

8m124P80

page 4.

Endicott Research Group, Inc.

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Specifications and Applications Information

2/13/96

Preliminary

The ERG 8m124P80 (*8m Class*) low profile dc to ac inverter is specifically designed to power the Sharp LM64P80 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% - 90%)
- ✓ Firm Specifications
- ✓ Application Information
- ✓ Made in U.S.A.
- ✓ Factory Support
- ✓ Custom Input and Output Voltages
- ✓ Flexible System Interface
- ✓ Notebook Display Head Compatible

For a printed circuit board mountable solution, the following E200II inverters are also available for the Sharp LM64P80:

E1191 5 volt input
E1192 12 volt input

8m124P80

8m Class DC to AC Inverter

8m Package

Package Configuration

1. Vin(+)
2. Vin(-)
3. Control
4. NC

.55 [14,0]

2.35 [59,7]

3.58 [90,9]

.116 [2,95] Dia (2X)

.55 [14,0]

.12 [3,05]

.79 [20,1]

8m Class

Mitsumi Output Connector

8m124P80

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	+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	lin	-	0.185	0.205	Adc
Operating Frequency	Fo	29	34	39	KHz
Minimum Output Voltage	Vout (min)	1050	-	-	Vrms
Efficiency	η	-	87		%
Output Current	Iout	-	5.25	-	marms
Output Voltage (When Powering a Sharp LM64P80 display)	Vout	-	370	-	Vrms

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

Specifications subject to change without notice

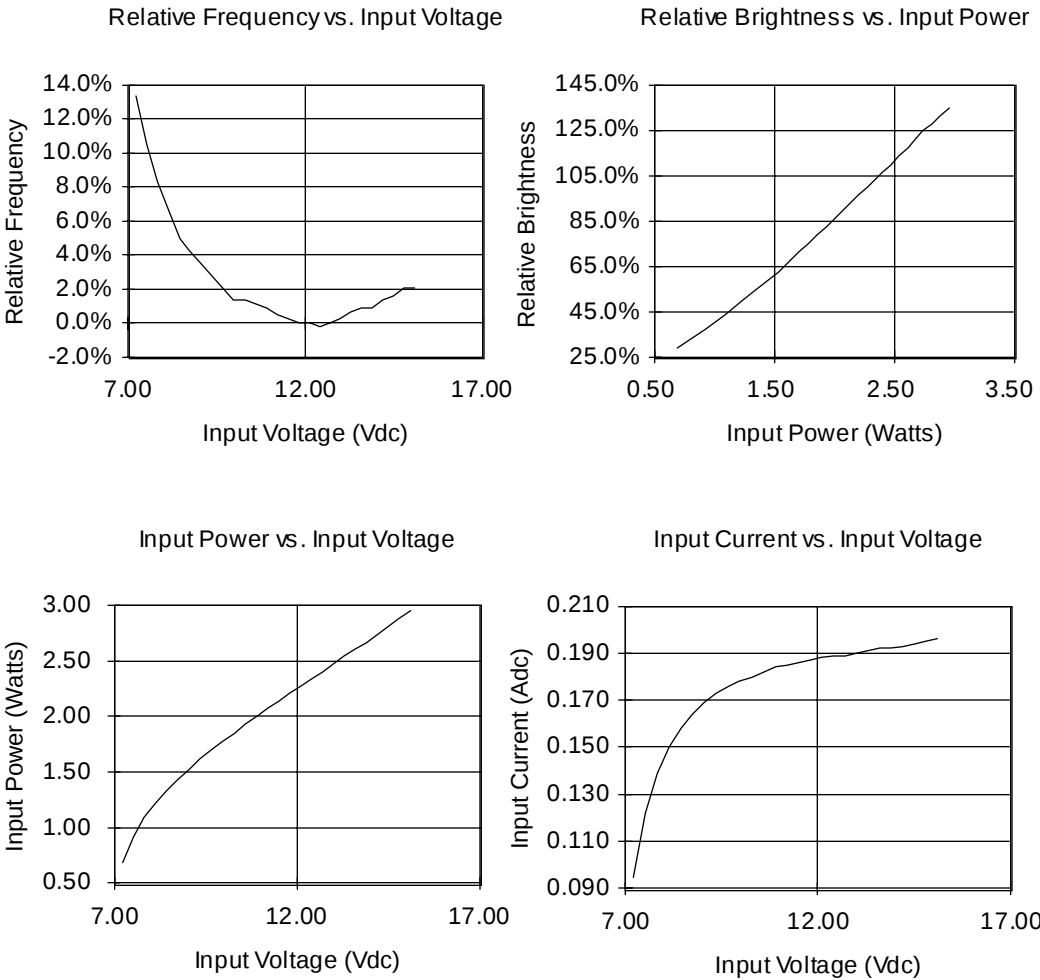


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Made in USA

8m124P80

Typical Performance Curves



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