

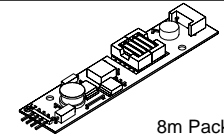
8m122039

## Specifications and Applications Information

3/19/98

Preliminary

**8m Class**  
 DC to AC Inverter



8m Package

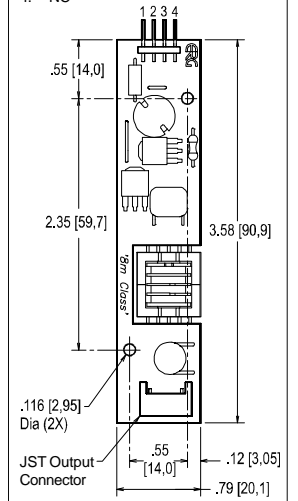
The ERG 8m122039 (8m Class) low profile dc to ac inverter is specifically designed to power the Sharp LQ5AW116 LCD display module to a moderate brightness level from a +12 volt dc source.

This low profile inverter features:

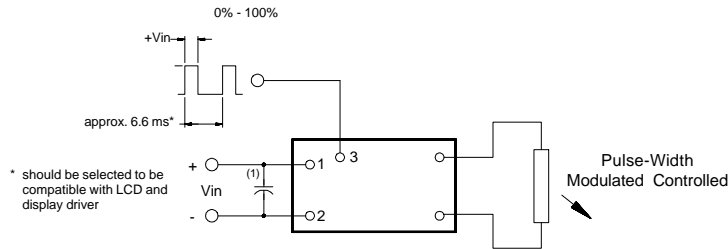
- ✓ Less Than 8 mm in Height
- ✓ LCD Module Specific
- ✓ Display Compatible Output Connector
- ✓ Firm Specifications
- ✓ Application Information
- ✓ Made in U.S.A.
- ✓ Factory Support
- ✓ Custom Input and Output Voltages
- ✓ Flexible System Interface
- ✓ Notebook Display Head Compatible

### Package Configuration

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



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



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

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

8m122039



8m122039

**Absolute Maximum Ratings**

Rating	Symbol	Value	Units
Input Voltage Range	V <sub>in</sub>	-0.3 to +14	Vdc
Operating Temperature	T <sub>o</sub>	0 to +70	°C
Storage Temperature	T <sub>stg</sub>	-40 to +85	°C

**Recommended Operating Conditions**

Rating	Symbol	Value	Units
Input Voltage	V <sub>in</sub>	+9 to 12.6	Vdc

**Electrical Characteristics**

Unless otherwise noted V<sub>in</sub> = 12.00 Volts dc and T<sub>a</sub> = 25°C

Characteristic	Symbol	Min	Typ	Max	Units
Input Current	I <sub>in</sub>	-	0.41	0.45	Adc
Operating Frequency	F <sub>o</sub>	39	44	49	KHz
Minimum Output Voltage	V <sub>out</sub> (min)	1500	-	-	Vrms
Efficiency	η	-	77	-	%
Output Current	I <sub>out</sub>	-	6.5	-	marms
Output Voltage (When Powering a SHARP LQ5AW116 display)	V <sub>out</sub>	-	585	-	Vrms

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

Specifications subject to change without notice



Made in USA

8m122039

**Typical Performance Curves**

