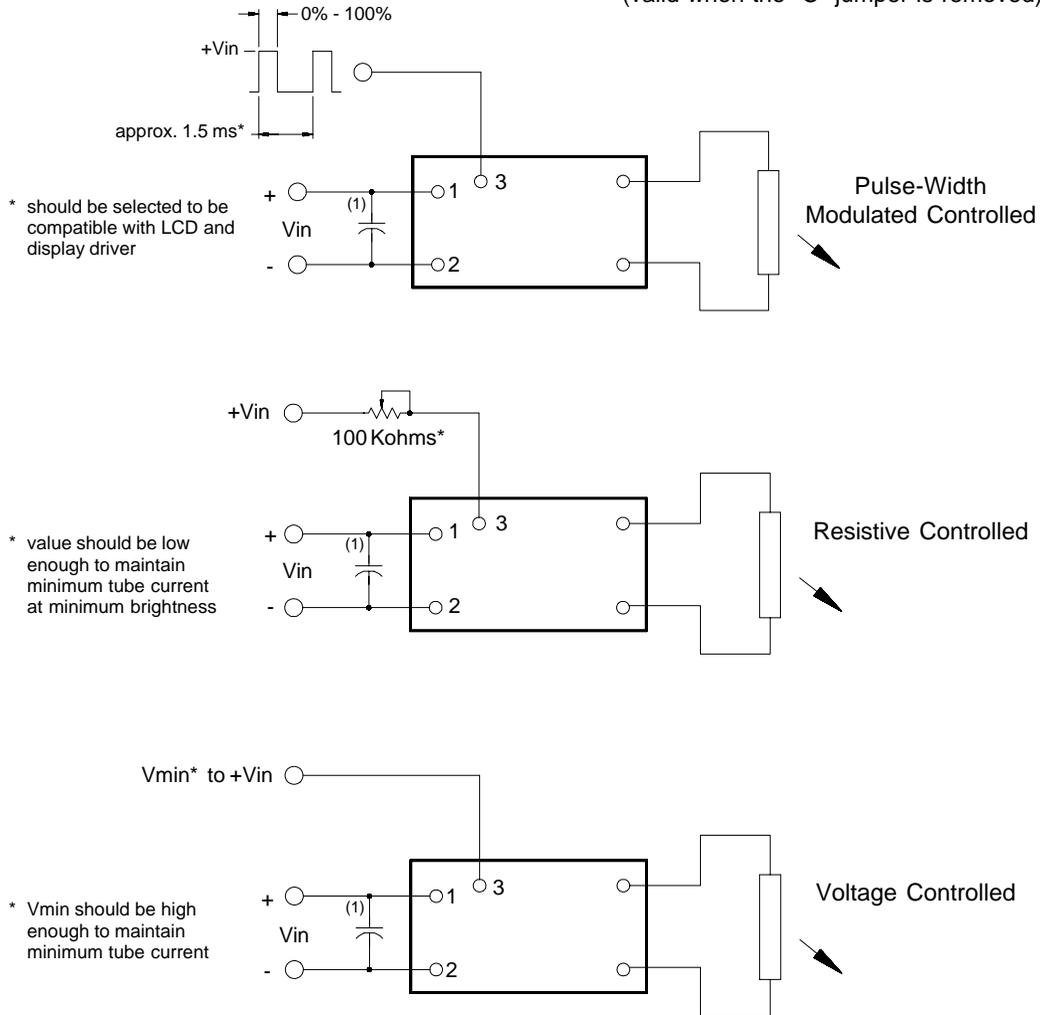


### 3 Dimming Options (valid when the "C" jumper is removed)



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

8m121772



**Endicott Research Group, Inc.**

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## Specifications and Applications Information

Preliminary

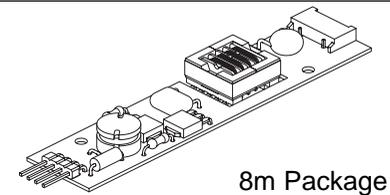
The ERG 8m121772 (8m Class) low profile dc to ac inverter is specifically designed to power the Optrex DMF50383 LCD display module to a moderate brightness level from a +12 volt dc source.

This low profile inverter features:

- ✓ Less Than 8 mm in Height
- ✓ LCD Module Specific
- ✓ Display Compatible Output Connector
- ✓ High Efficiency (80% - 85%)
- ✓ Firm Specifications
- ✓ Application Information
- ✓ Made in U.S.A.
- ✓ Factory Support
- ✓ Custom Input and Output Voltages
- ✓ Flexible System Interface
- ✓ Notebook Display Head Compatible

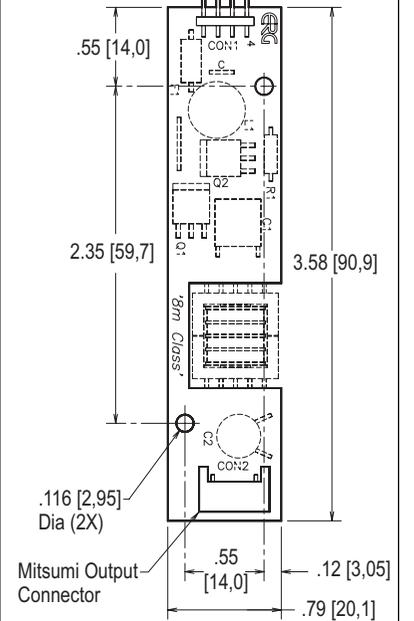
8m121772

8m Class  
DC to AC Inverter



### Package Configuration

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



**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	Iin	-	0.16	0.185	Adc
Operating Frequency	Fo	26	31	36	KHz
Minimum Output Voltage	Vout (min)	1050	-	-	Vrms
Efficiency	$\eta$	-	83	-	%
Output Current	Iout	-	5.3	-	marms
Output Voltage (When Powering an Optrex DMF50383 display)	Vout	-	300	-	Vrms

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

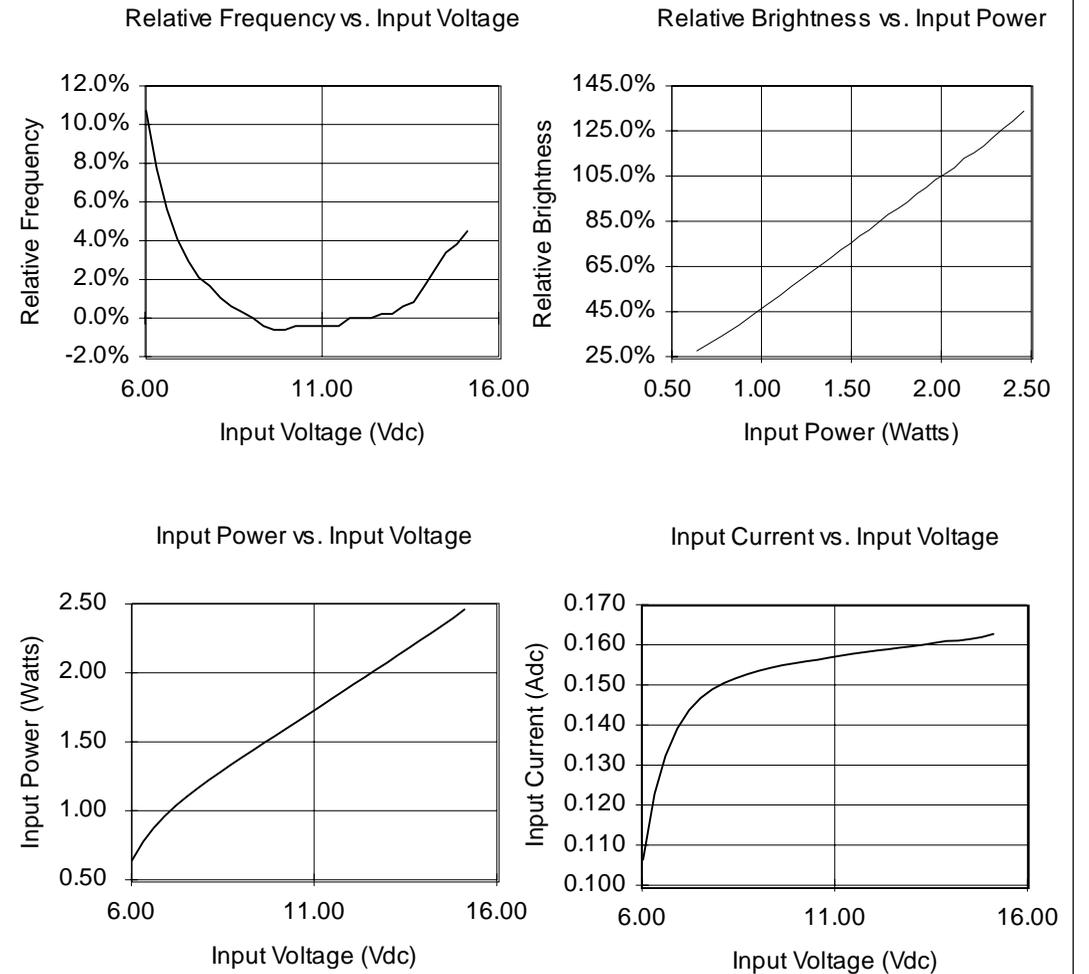
Specifications subject to change without notice



Endicott Research Group, Inc.

Made in USA

**Typical Performance Curves**



Endicott Research Group, Inc.