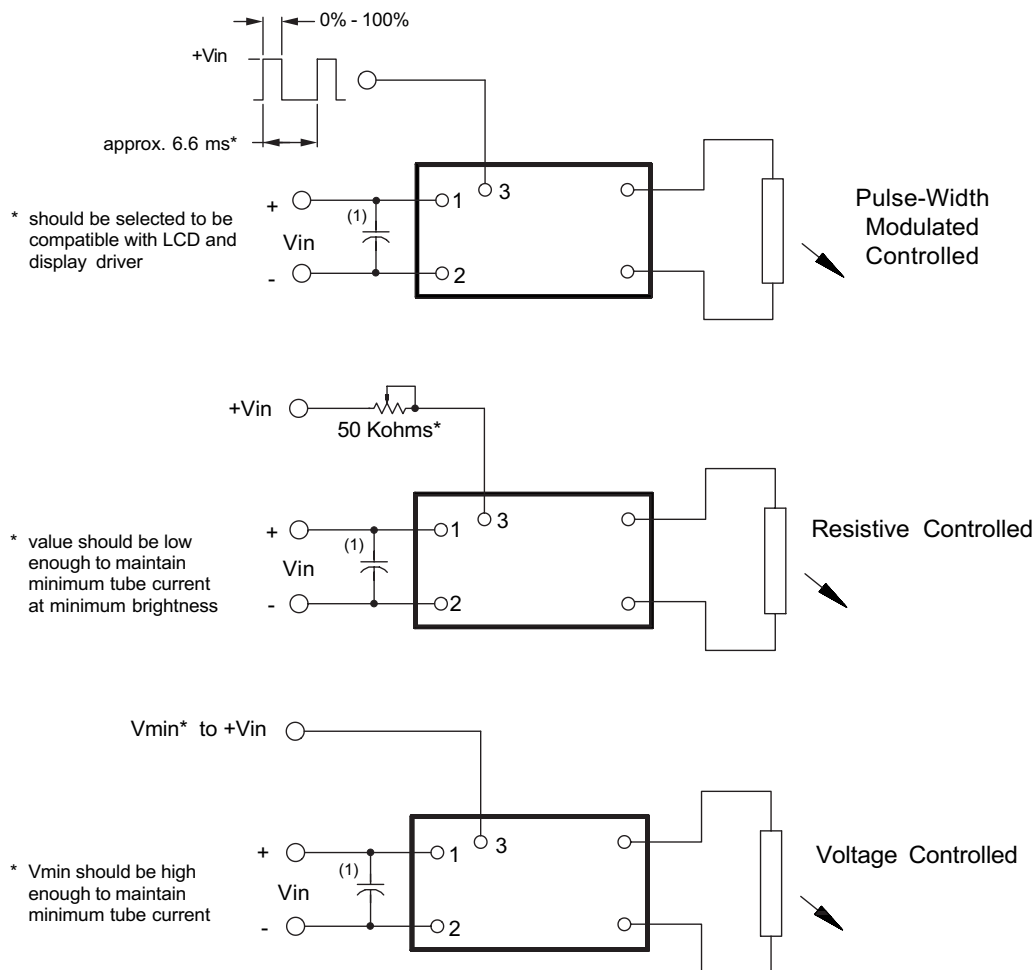


8m052224

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.



Endicott Research Group, Inc.

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Specifications and Applications Information

4/22/99

Preliminary

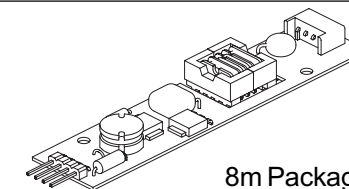
The ERG 8m052224 (**8m Class**) low profile dc to ac inverter is specifically designed to power a single tube of the Sharp LQ084V1DG21 LCD single tube display module to a moderate brightness level from a +5 volt dc source.

This low profile inverter features:

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

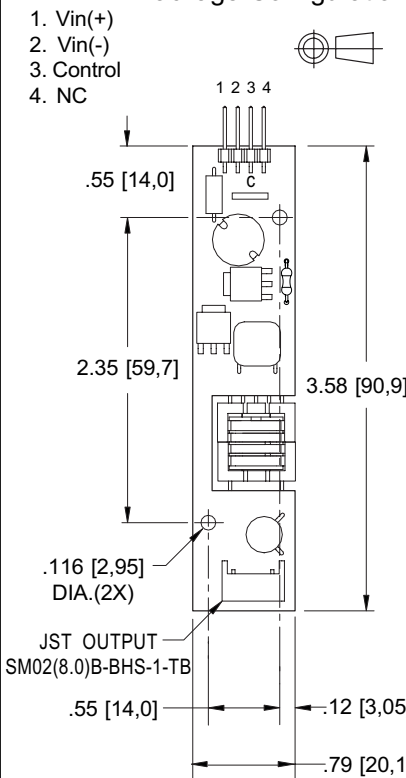
8m052224

8m Class DC to AC Inverter



8m Package

Package Configuration



Absolute Maximum Ratings

Rating	Symbol	Value	Units
Input Voltage Range	V_{in}	-0.3 to +6.0	Vdc
Operating Temperature	T_o	0 to +70	°C
Storage Temperature	T_{stg}	-40 to +85	°C

Recommended Operating Conditions

Rating	Symbol	Value	Units
Input Voltage	V_{in}	+2.5 to 5.5	Vdc

Electrical Characteristics

Unless otherwise noted V_{in} = 5.00 Volts dc and T_a = 25 °C

Characteristic	Symbol	Min	Typ	Max	Units
Input Current	I_{in}	-	1.10	1.25	Adc
Operating Frequency	F_o	37.5	42.5	47.5	KHz
Minimum Output Voltage	$V_{out} (min)$	1500	-	-	V_{rms}
Efficiency	η	-	74	-	%
Output Current	I_{out}	-	6.0	-	marms
Output Voltage (when Powering a Sharp LQ084V1DG21 display)	V_{out}	-	680	-	V_{rms}

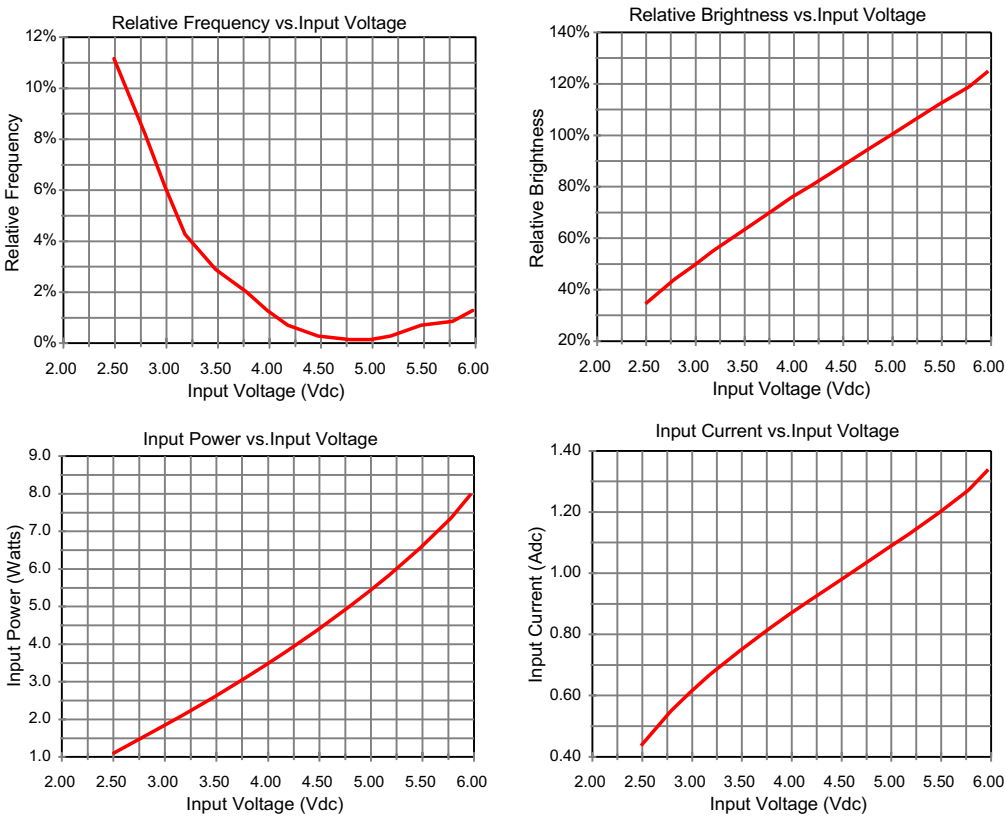
After tube has been allowed to warm-up for 5 minutes Specifications subject to change without notice



Endicott Research Group, Inc.

Made in USA

Typical Performance Curves



Endicott Research Group, Inc.