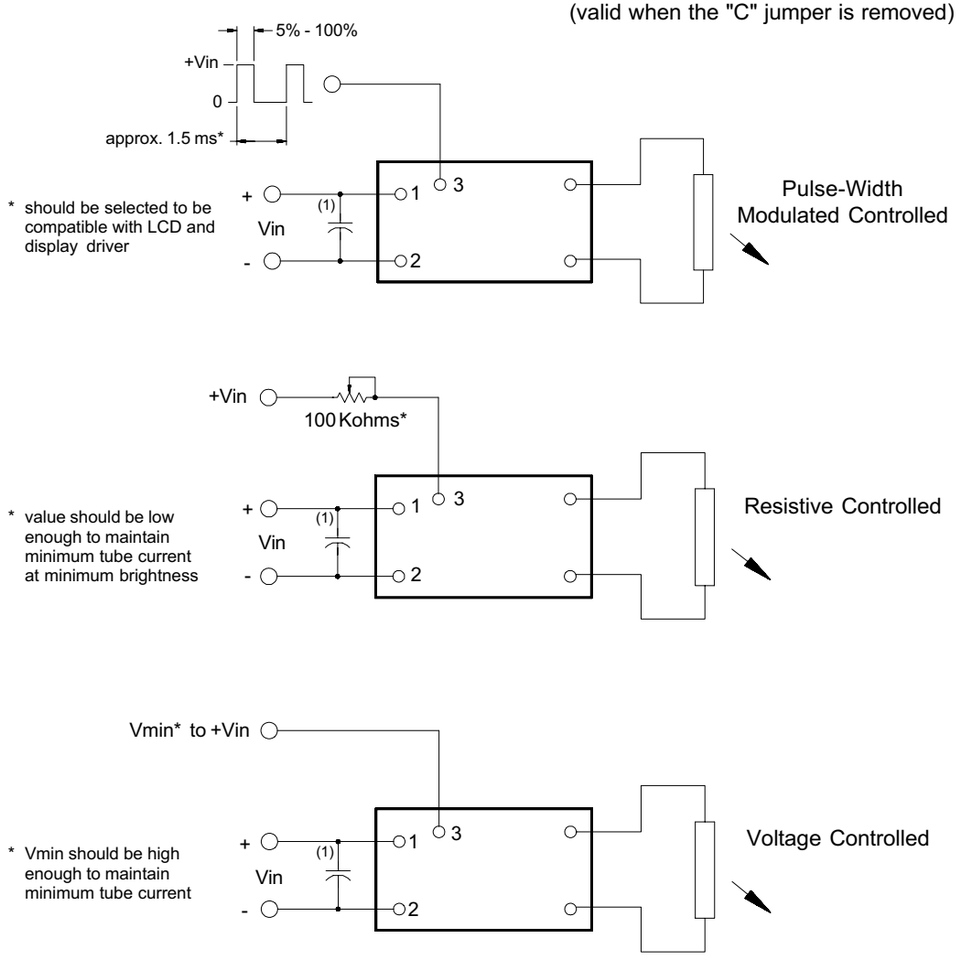
8m122503

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.

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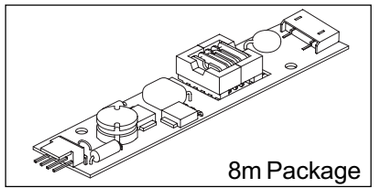
8m122503

Specifications and Applications Information

1/17/01 Preliminary

8m Class
DC to AC Inverter



The ERG 8m122503 (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 +12 volt dc source.

This low profile inverter features:

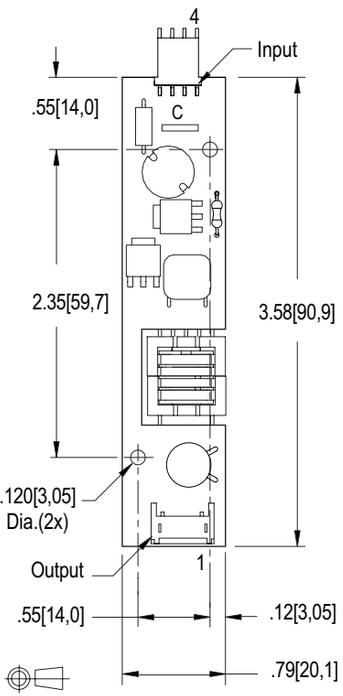
- ✓ Less Than 8 mm in Height
- ✓ LCD Module Specific
- ✓ Display Compatible Output Connector
- ✓ Firm Specifications
- ✓ Application Information
- ✓ Made in U.S.A.
- ✓ Factory Support
- ✓ Custom Input and Output Voltages
- ✓ Flexible System Interface
- ✓ Notebook Display Head Compatible

Pin Descriptions

Input Connector	Output Connector
Molex 22-05-3041	JST SM02(8.0)B-BHS-1-TB
Con1-1 Vin(+)	Con2-1 ACout
Con1-2 GND	Con2-2 NC
Con1-3 Control *	Con2-3 NC
Con1-4 NC	Con2-4 ACout

* Valid when the "C" Jumper is removed

Package Configuration



Absolute Maximum Ratings

Rating	Symbol	Value	Units
Input Voltage Range	Vin	-0.3 to +13.2	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	-	.45	.51	Adc
Operating Frequency	Fo	34	39	44	KHz
Minimum Output Voltage	Vout (min)	1500	-	-	Vrms
Efficiency	η	-	76	-	%
Output Current	Iout	-	6.0	-	marms
Output Voltage (When powering a Sharp LQ084V1DG21 display)	Vout	-	680	-	Vrms
Pin3 Input Current Requirement	-	-	15	-	madc

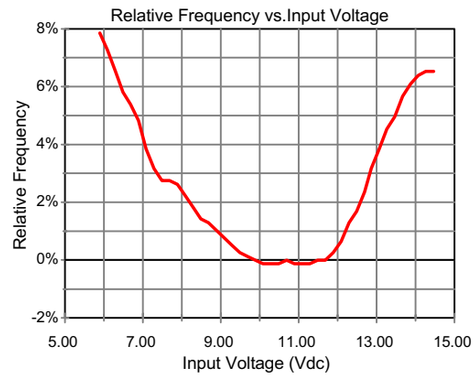
After tube has been allowed to warm-up for 5 minutes
External Disable Circuit shown on page 3.

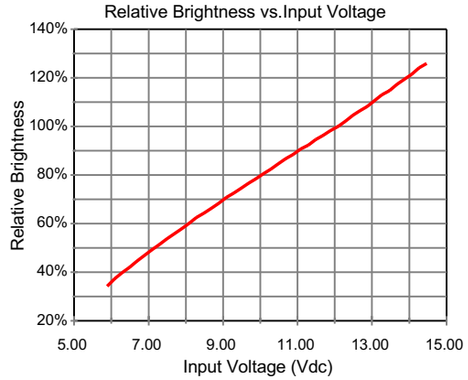
Specifications subject to change without notice.

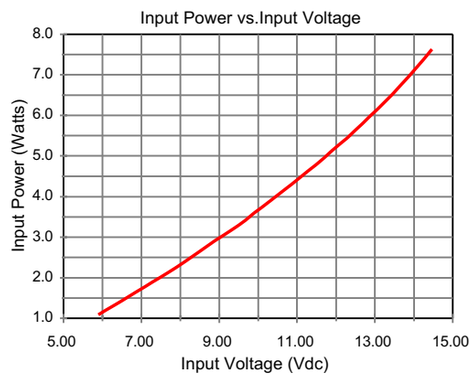
Endicott Research Group, Inc.

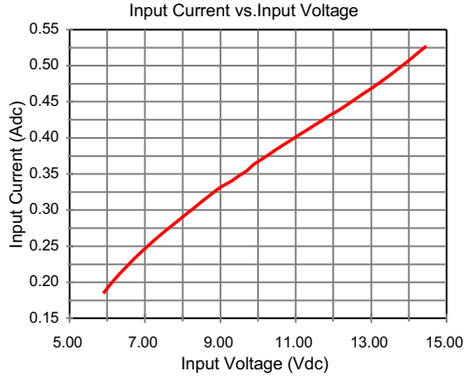
Made in USA

Typical Performance Curves

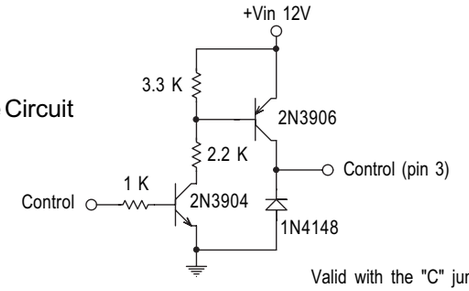








Disable Circuit



Valid with the "C" jumper removed

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