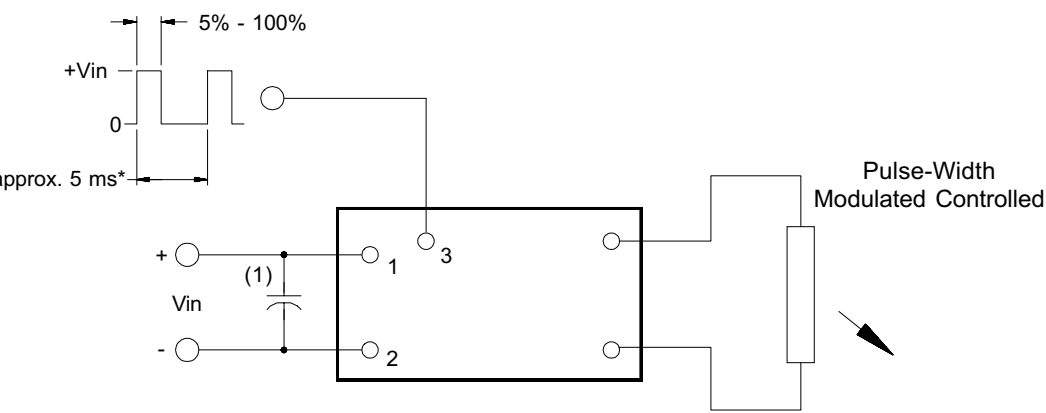


8m052569

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.



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2601 Wayne St., Endicott NY 13760
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Specifications and
Applications Information

5/17/01

Preliminary

The ERG 8m052569 (*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:

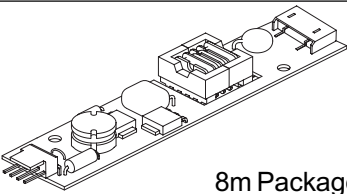
- ✓ Less Than 8 mm in Height
- ✓ LCD Module Specific
- ✓ Display Compatible Output Connector
- ✓ Firm Specifications
- ✓ Application Information
- ✓ Designed, Manufactured and Supported in the USA
- ✓ Custom Input and Output Voltages
- ✓ Flexible System Interface
- ✓ Notebook Display Head Compatible

Pin Descriptions

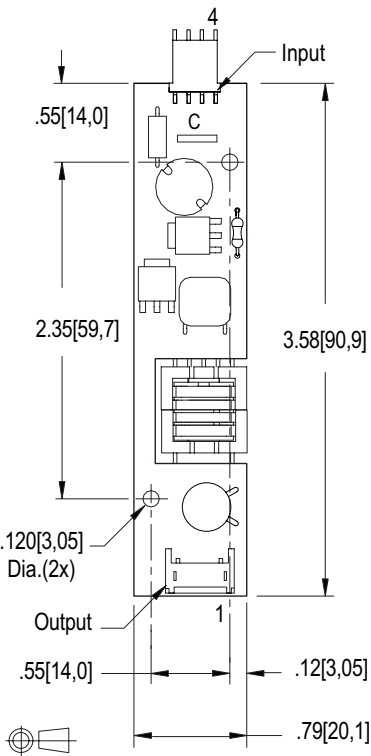
Input Connector	Output Connector
Molex 22-05-3041	JST SM02(8.0)B-BHS-1-TB
Con1-1 Vin(+) Con1-2 GND Con1-3 Control * Con1-4 N/C	Con2-1 ACout Con2-2 N/C Con2-3 N/C Con2-4 ACout
* Valid when the "C" Jumper is removed	

8m052569

8m Class
DC to AC Inverter



Package Configuration



8m052569

Absolute Maximum Ratings

Rating	Symbol	Value	Units
Input Voltage Range	Vin	-0.3 to +6.0	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	+2.5 to 5.5	Vdc

Electrical Characteristics

Unless otherwise noted Vin = 5.00 Volts dc and Ta = 25 °C

Characteristic	Symbol	Min	Typ	Max	Units
Input Current	Iin	-	1.10	1.25	Adc
Operating Frequency	Fo	37.5	42.5	47.5	KHz
Minimum Output Voltage	Vout (min)	1500	-	-	Vrms
Efficiency	η	-	74	-	%
Output Current	Iout	-	6.0	-	marms
Output Voltage (When powering a Sharp LQ084V1DG21 display)	Vout	-	680	-	Vrms
Pin3 Input Current Requirement	-	-	11	-	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.

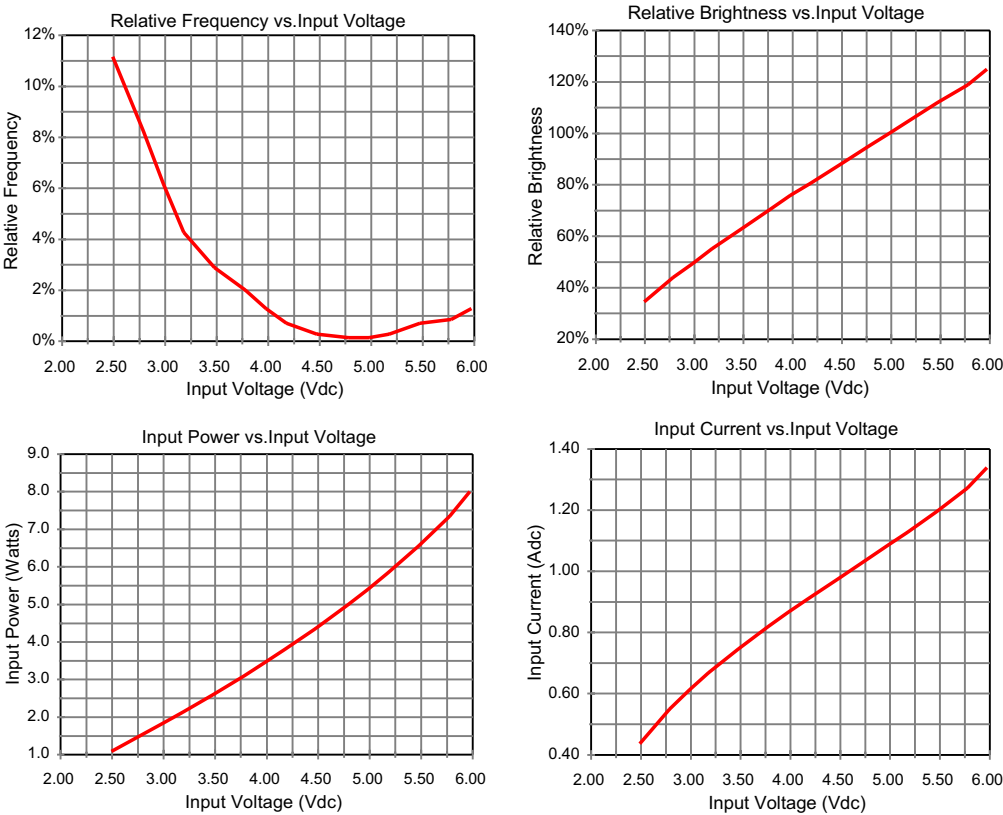


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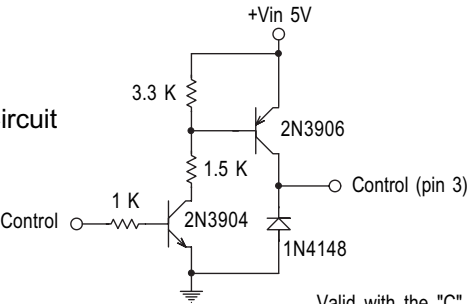
Made in USA

Typical Performance Curves

8m052569



Disable Circuit



Valid with the "C" jumper removed



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