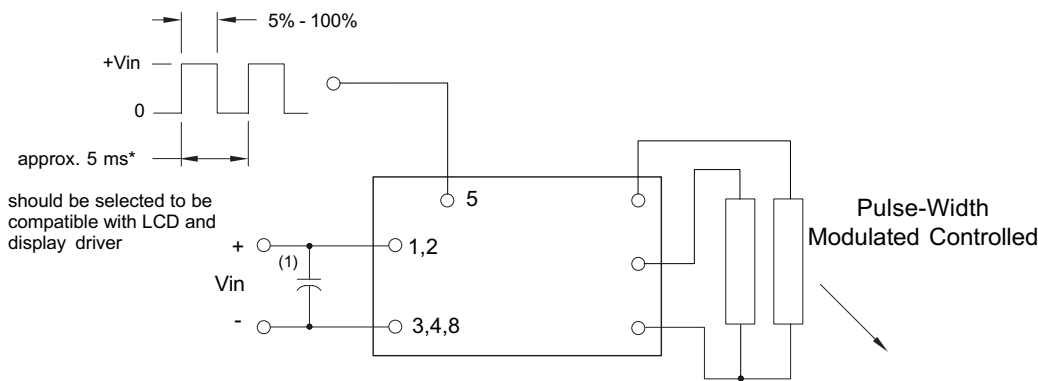


8mA22534

Dimming Option



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



Endicott Research Group, Inc.
2601 Wayne St., Endicott NY 13760
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2601 Wayne St., Endicott NY 13760
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<http://www.ergpower.com>

Specifications and
Applications Information

3/16/01

Preliminary

The ERG 8mA22534 (*8m Class*) low profile dc to ac inverter is specifically designed to power the NEC NL8060BC26-17 LCD display module to a moderate brightness level from a +8.5 volt dc source.

This low profile inverter features:

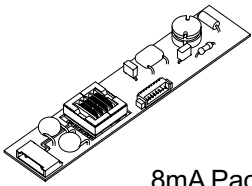
- ✓ Less Than 8 mm in Height
- ✓ LCD Module Specific
- ✓ Display Compatible Output Connector
- ✓ Firm Specifications
- ✓ Application Information
- ✓ Designed, Manufactured and Supported in the USA
- ✓ Custom Input and Output Voltages
- ✓ Flexible System Interface
- ✓ Notebook Display Head Compatible

Pin Descriptions

Input Connector	Output Connector
Molex 53261-0890	JST SM03(4.0)B-BHS-1-TB
Con1-1 Vin(+)	Con2-1 Common
Con1-2 Vin(+)	Con2-2 ACout
Con1-3 GND	Con2-3 ACout
Con1-4 GND	
Con1-5 Control	
Con1-6 NC	
Con1-7 NC	
Con1-8 GND	

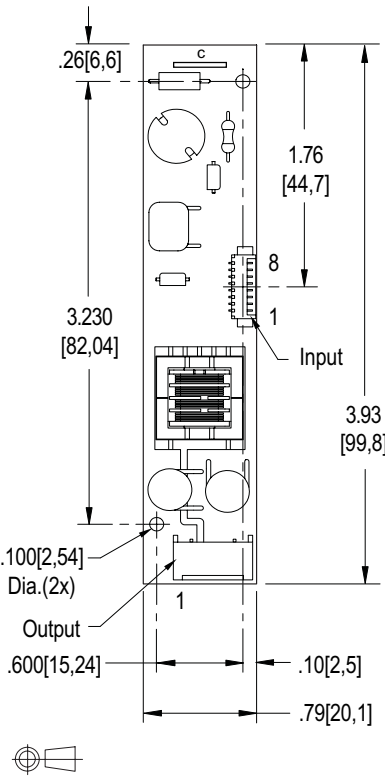
8mA22534

8m Class
DC to AC Inverter



8mA Package

Package Configuration



8mA22534

Absolute Maximum Ratings

Rating	Symbol	Value	Units
Input Voltage Range	Vin	-0.3 to +9.4	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	+3 to 9.4	Vdc

Electrical Characteristics

Unless otherwise noted Vin = 8.5 Volts dc and Ta = 25 °C

Characteristic	Symbol	Min	Typ	Max	Units
Input Current	lin	-	1.0	1.2	Adc
Operating Frequency	Fo	40	45	50	KHz
Minimum Output Voltage	Vout (min)	1265	-	-	Vrms
Efficiency	η	-	84	-	%
Output Current per tube	lout	-	7	-	marms
Output Voltage (When powering a Load simulating the referenced display.)	Vout	-	510	-	Vrms
Pin5 Input Current Requirement	-	-	13	-	madc

After tube has been allowed to warm-up for 5 minutes
External Disable Circuit shown on page 3.
Vout measured is 450 Vrms with lout = 7 marms

Specifications subject to change without notice.

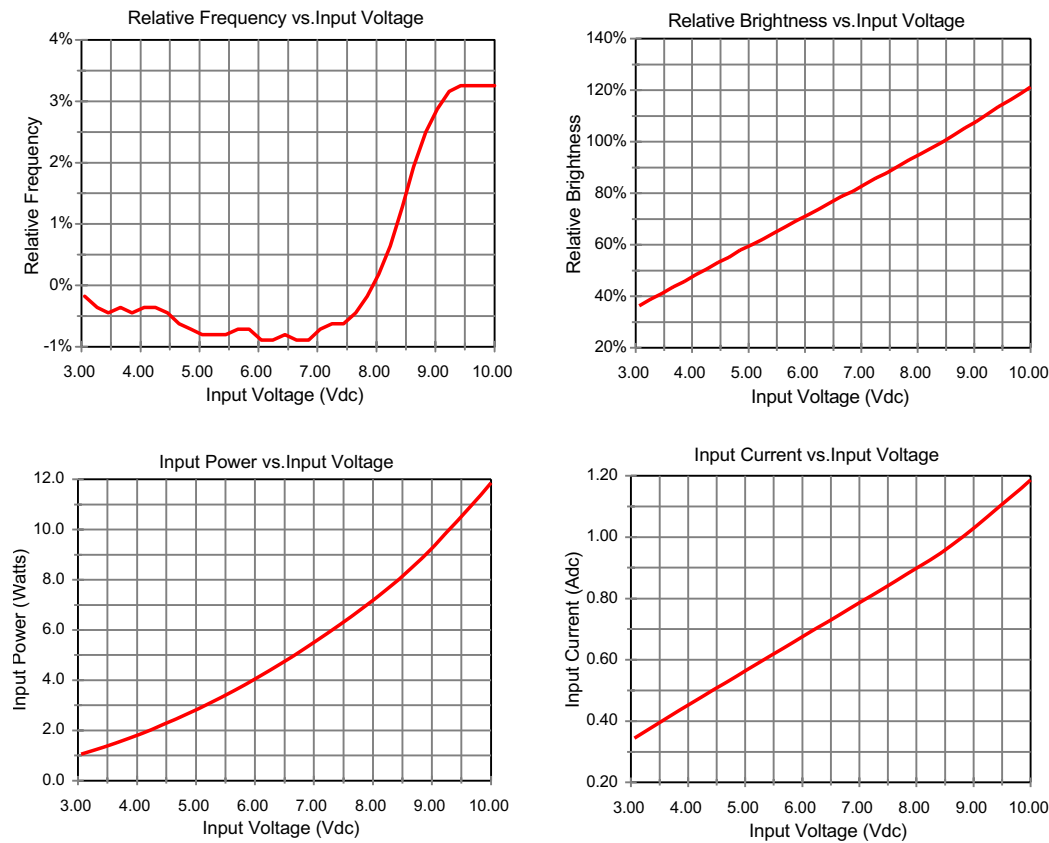


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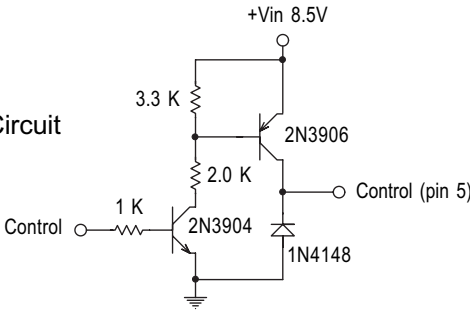
Made in USA

Typical Performance Curves

8mA22534



Disable Circuit



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