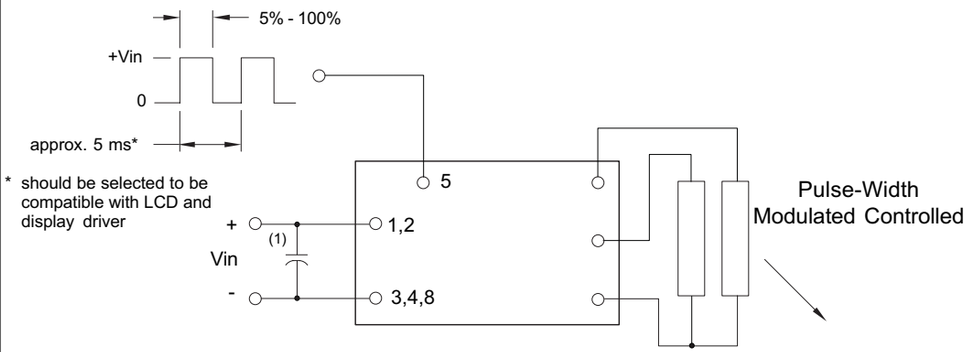
Dimming Option



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
607-754-9187

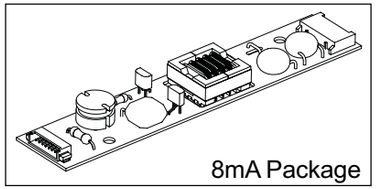
Endicott Research Group, Inc.
2601 Wayne St., Endicott NY 13760
607-754-9187 Fax 607-754-9255
http://www.ergpower.com

8mA22415

Specifications and Applications Information

9/7/00 Preliminary

8m Class
DC to AC Inverter

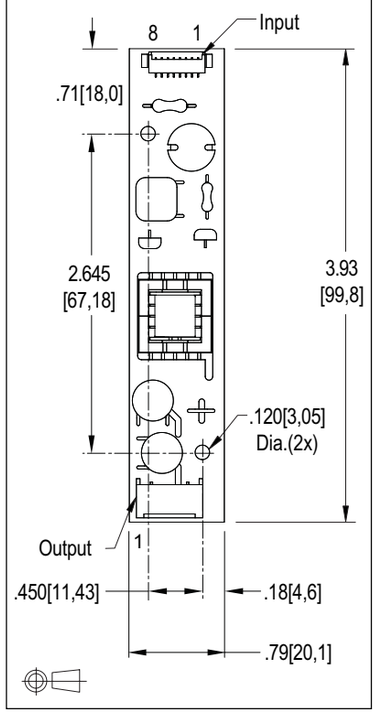


The ERG 8mA22415 (8m Class) low profile dc to ac inverter is specifically designed to power the Toshiba LTM08C351 LCD display module to a moderate brightness level from a +5 volt dc source.

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

Package Configuration



Pin Descriptions

Input Connector Molex 53261-0890	Output Connector JST SM04(4.0)B-BHS-1-TB
Con1-1 Vin(+)	Con2-1 ACout
Con1-2 Vin(+)	Con2-2 ACout
Con1-3 GND	Con2-3 NC
Con1-4 GND	Con2-4 Common
Con1-5 Control	
Con1-6 NC	
Con1-7 NC	
Con1-8 GND	

Absolute Maximum Ratings

Rating	Symbol	Value	Units
Input Voltage Range	Vin	-0.3 to +5.5	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	-	1.15	1.3	Adc
Operating Frequency	Fo	43	48	53	KHz
Minimum Output Voltage	Vout (min)	1500	-	-	Vrms
Efficiency	η	-	77	-	%
Output Current per tube	Iout	-	6.3	-	marms
Output Voltage (When powering a Load simulating the referenced display.)	Vout	-	350	-	Vrms
Pin5 Input Current Requirement	-	-	11	-	madc

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

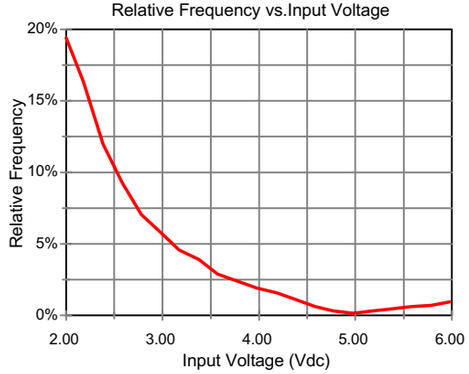
Specifications subject to change without notice.

Endicott Research Group, Inc.

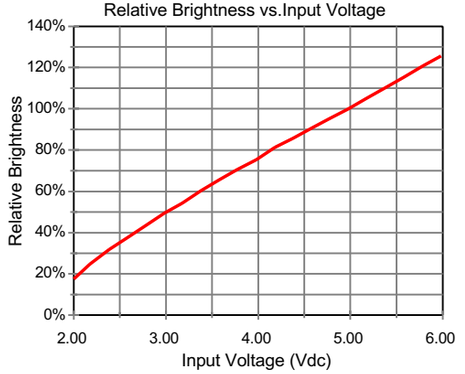
Made in USA

Typical Performance Curves

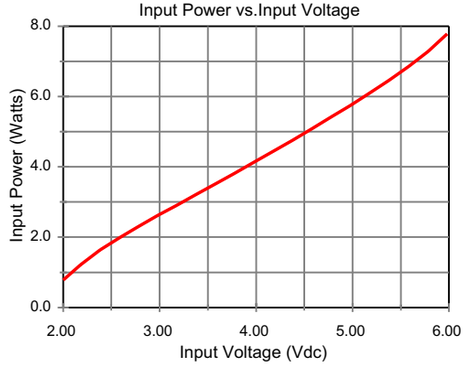
Relative Frequency vs.Input Voltage



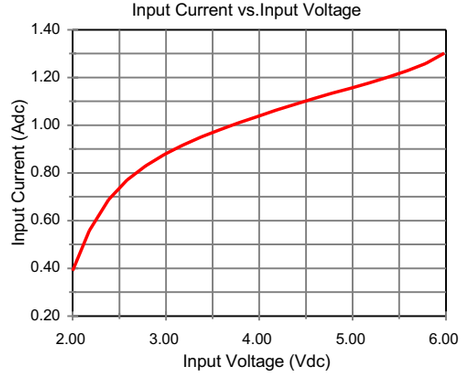
Relative Brightness vs.Input Voltage



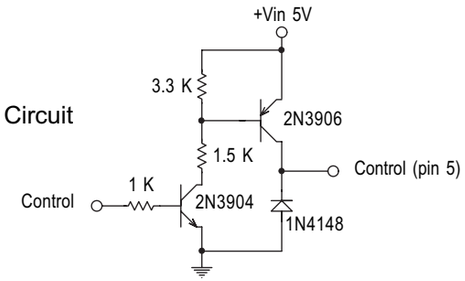
Input Power vs.Input Voltage



Input Current vs.Input Voltage



Disable Circuit



Endicott Research Group, Inc.