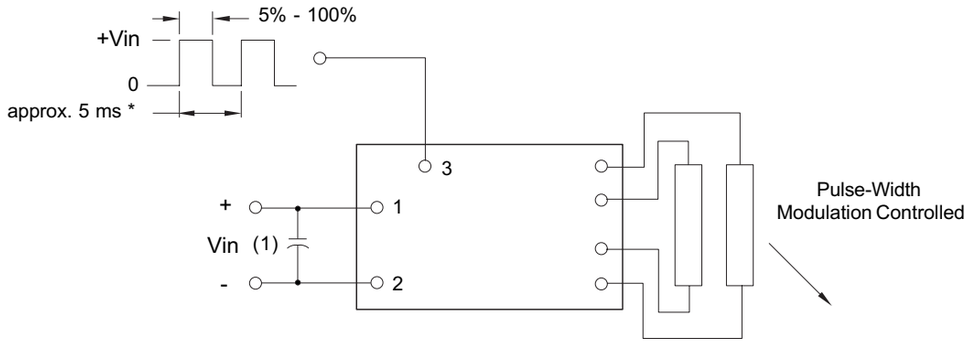
L2499

Dimming Option



* should be selected to be compatible with LCD and display driver.

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

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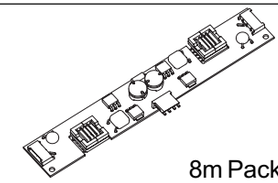
L2499

Specifications and Applications Information

01/22/01 Preliminary

8m Class
DC to AC Inverter


8m Package

The ERG L2499 (8m Class) low profile dc to ac inverter is specifically designed to power the Mitsubishi AA104VB04 LCD display module to a moderate brightness level from a +5 volt dc source.

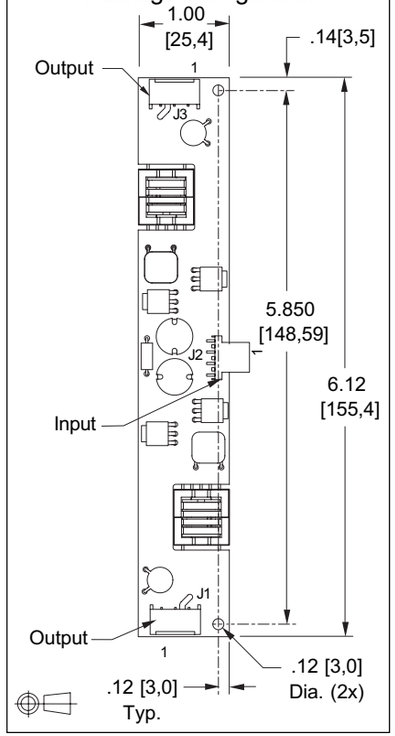
This low profile inverter features:

- ✓ 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

Pin Descriptions

Input Connector		Output Connectors	
MOLEX 22-05-3041		JST SM02(8.0)B-BHS1TB	
J2-1	Vin	J1-1	ACout
J2-2	GND	J1-2	NC
J2-3	Control	J1-3	ACcommon
J2-4	NC		
		J3-1	ACout
		J3-2	NC
		J3-3	ACcommon

Package Configuration



Absolute Maximum Ratings

Rating	Symbol	Value	Units
Input Voltage Range	Vin	-0.3 to +6	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	-	2.3	2.7	Adc
Operating Frequency	Fo	41	46	51	KHz
Minimum Output Voltage	Vout (min)	1500	-	-	Vrms
Efficiency	η	-	81	-	%
Output Current per tube	Iout	-	7	-	marms
Output Voltage (when Powering a load simulating the referenced display)	Vout	-	665	-	Vrms
Pin3 Input Current Requirement	-	-	22	-	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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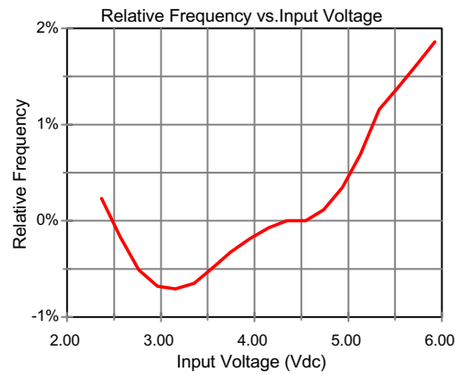
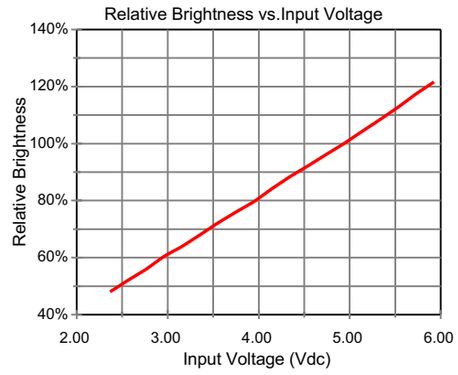
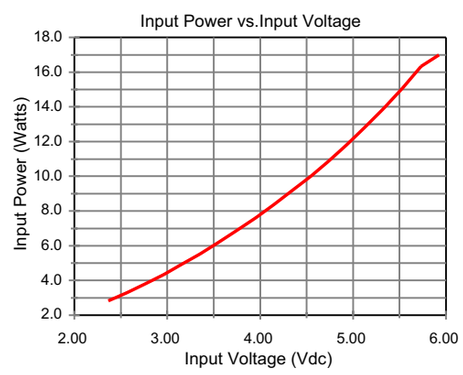
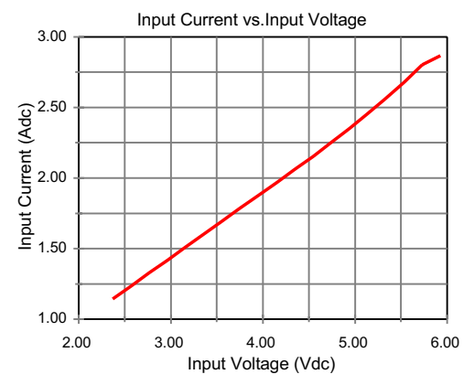
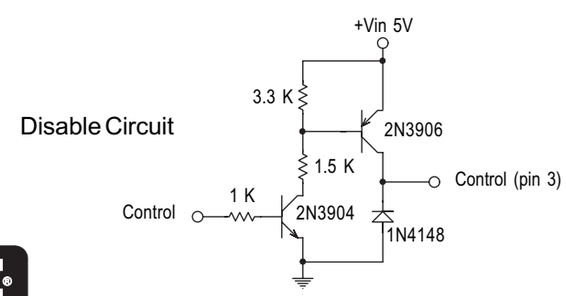
Typical Performance Curves











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