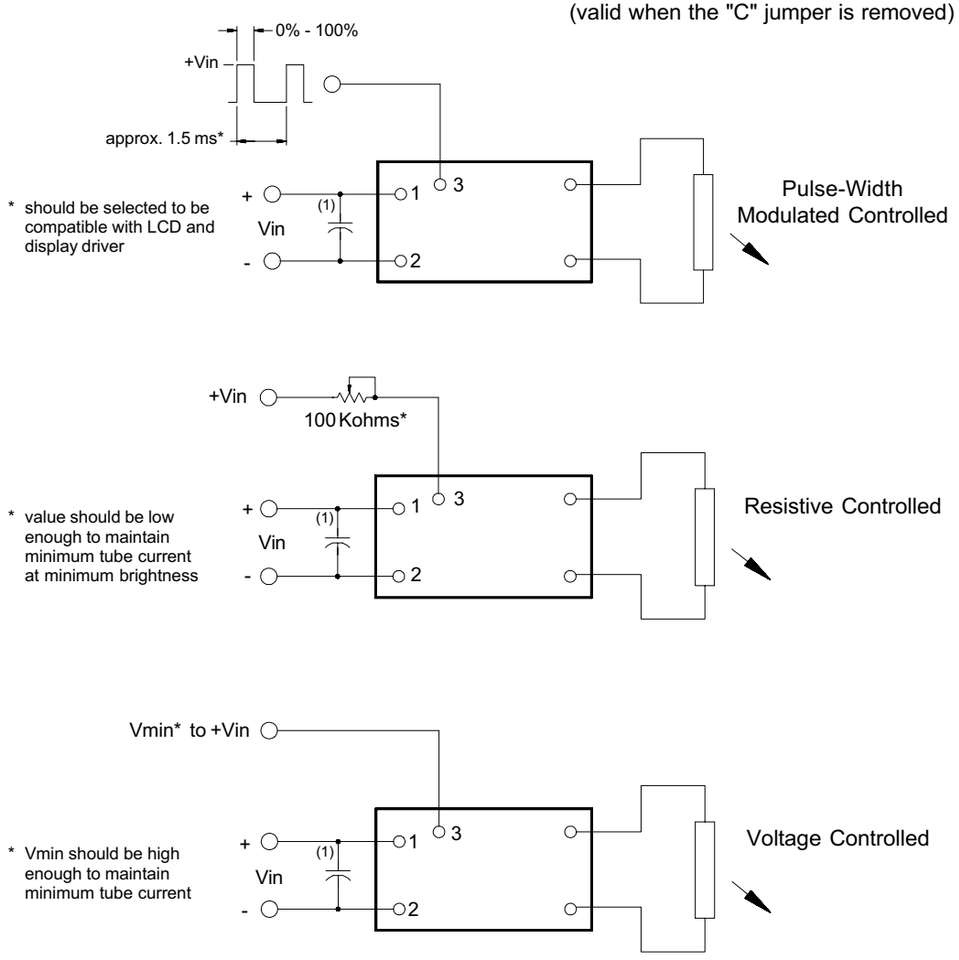
8M052284

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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2601 Wayne St., Endicott NY 13760
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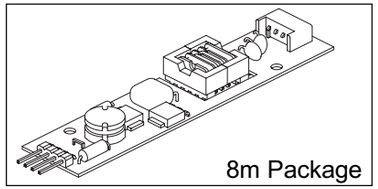
8M052284

Specifications and Applications Information

7/8/99 Preliminary

8m Class
DC to AC Inverter

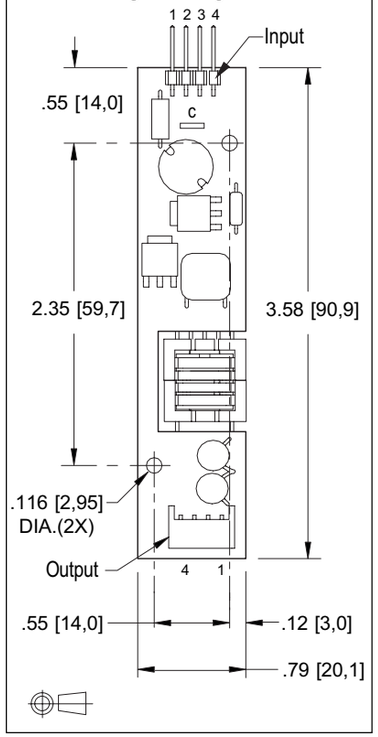

8m Package

The ERG 8M052284 (8m Class) low profile dc to ac inverter is specifically designed to power the Hitachi SX19V001-Z1 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	Output Connector
4 pins are 0.315" [8,00] Long, 0.025" [0,63] Square and are on 0.100" [2,54] Centers.	Mitsumi M60-04-30-134P
Con1-1 Vin(+) Con1-2 GND Con1-3 Control * Con1-4 NC	Con2-1 ACout Con2-2 NC Con2-3 NC Con2-4 ACout

* Valid when the "C" Jumper is removed

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	-	.35	.40	Adc
Operating Frequency	Fo	33	37	41	KHz
Minimum Output Voltage	Vout (min)	1400	-	-	Vrms
Efficiency	η	-	70	-	%
Output Current	Iout	-	3.0	-	marms
Output Voltage (when Powering a Load Simulating the characteristics of the referenced display)	Vout	-	410	-	Vrms

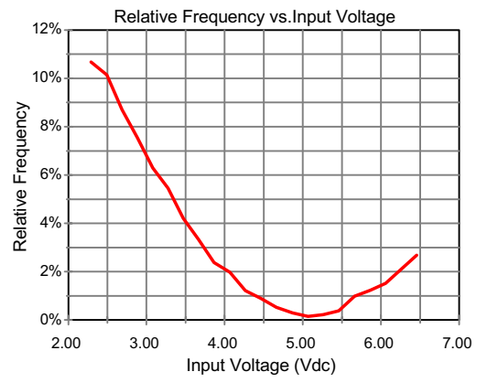
After tube has been allowed to warm-up for 5 minutes Specifications subject to change without notice

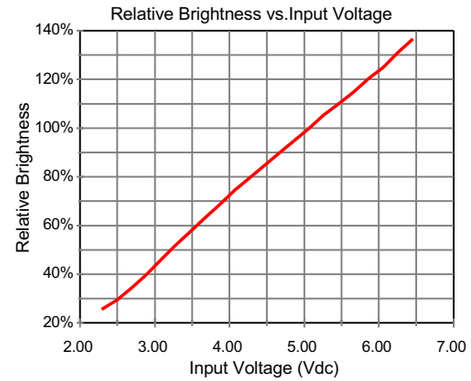
Endicott Research Group, Inc.

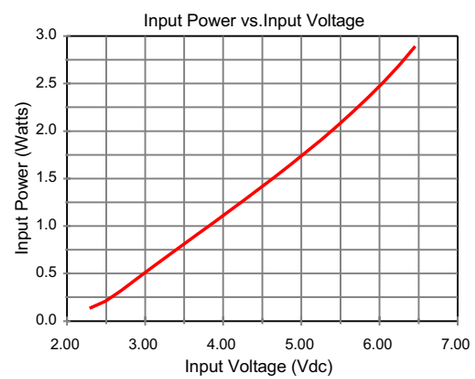
Made in USA

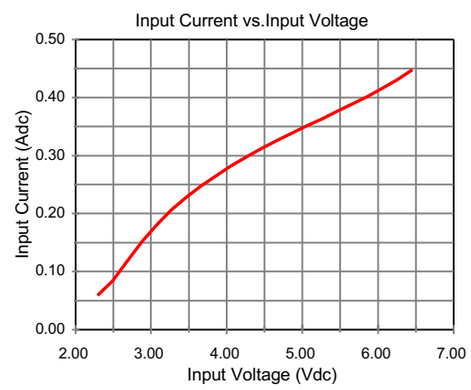
8M052284

Typical Performance Curves









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