



Endicott Research Group, Inc.

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<http://www.ergpower.com>

Specifications and Applications Information

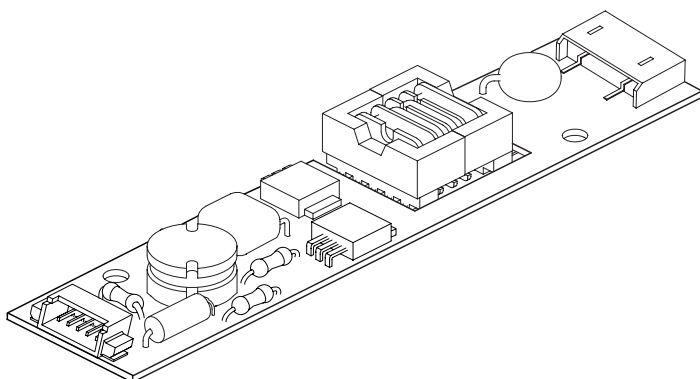
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Preliminary

The ERG E2407 low profile dc to ac inverter is specifically designed to power the Sharp LM10V33 LCD display module to a moderate brightness level from a +12 volt dc source.

Product Features

- ✓ 8 mm in Height
- ✓ Display Compatible Output Connector
- ✓ High Efficiency (>80%)
- ✓ Firm Specifications
- ✓ Application Information
- ✓ Designed, Manufactured and Supported in the USA

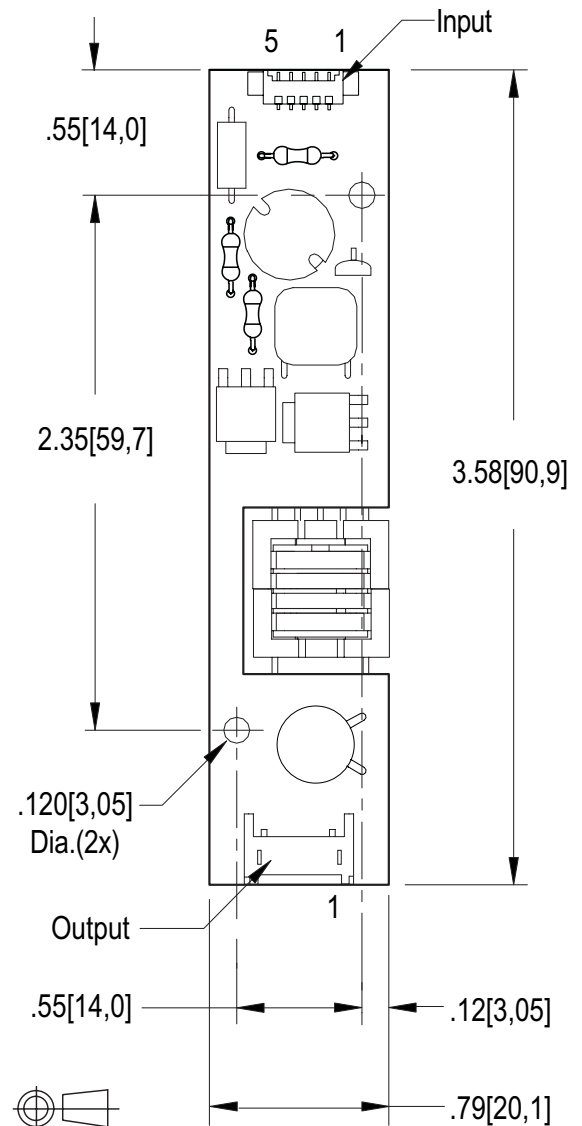


E2407 Package

E2407

E2407 Single Tube DC to AC Inverter

Package Configuration



Pin Descriptions

<u>Input Connector</u> Molex 53261-0590		<u>Output Connector</u> JST SM02(8.0) B-BHS-1-TB	
Con1-1	PWMIN	Con2-1	ACout
Con1-2	+12Vdc	Con2-2	NC
Con1-3	GND	Con2-3	ACout
Con1-4	NC(can be grounded)		
Con1-5	NC(can be grounded)		

Absolute Maximum Ratings

Rating	Symbol	Value	Units
Input Voltage Range	V _{in}	-0.3 to +13.2	V _{dc}
Operating Temperature	T _o	-0 to +70	°C
Storage Temperature	T _{stg}	-40 to +85	°C

Recommended Operating Conditions

Rating	Symbol	Value	Units
Input Voltage	V _{in}	+6 to 13.2	V _{dc}

Electrical Characteristics

Unless otherwise noted V_{in} = 12.00 Volts dc and T_a = 25 °C

Characteristic	Symbol	Min	Typ	Max	Units
Input Current	I _{in}	-	.29	.33	A _{dc}
Operating Frequency	F _o	30	35	40	KHz
Minimum Output Voltage	V _{out} (min)	1300	-	-	V _{rms}
Efficiency	η	-	81	-	%
Output Current	I _{out}	-	5.5	-	ma _{rms}
Output Voltage (When powering a load simulating the referenced display.)	V _{out}	-	510	-	V _{rms}
Pin1 Input Current Requirement	-	-	2.2	-	ma _{dc}

After tube has been allowed to warm-up for 5 minutes.

Specifications subject to change without notice.

Pin 1 can be driven with an unloaded collector circuit
when Pin 1 is grounded the inverter will turn on.



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Made in USA