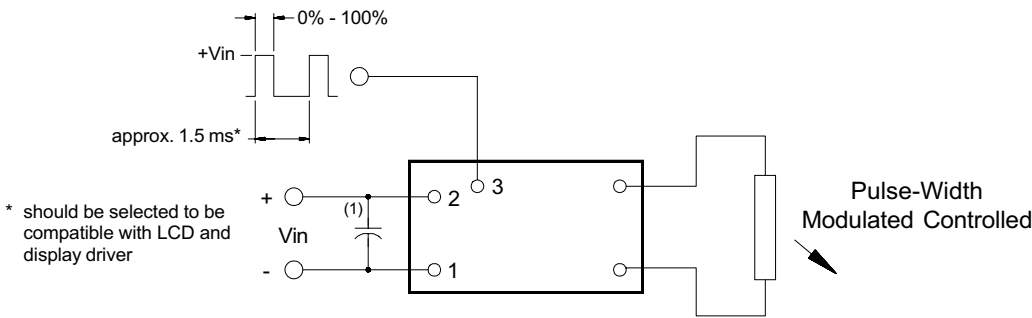


S2296

Dimming Option



- Note 1 Input by-pass capacitor (25 uf - 100uf) may be required to reduce reflected ripple.
- Note 2 Full brightness with no control requires that pin 3 be tied to pin 2.



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S2296

Specifications and
Applications Information

10/27/99

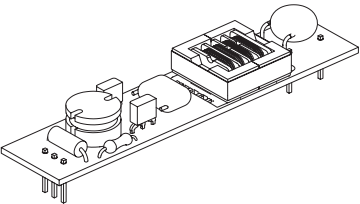
Preliminary

8m Class
DC to AC Inverter

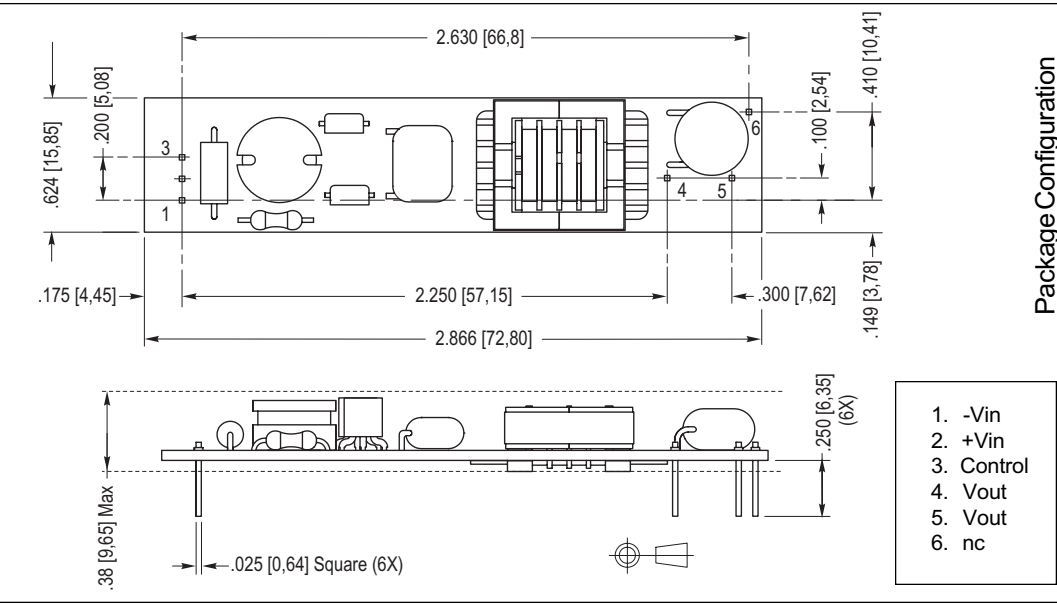
The ERG S2296 (*S-Series*) low profile dc to ac inverter is specifically designed to power the Optrex DMF50081 LCD display module to a moderate brightness level from a +5 volt dc source.

This low profile inverter features:

- ✓ 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



S-Series



Absolute Maximum Ratings

Rating	Symbol	Value	Units
Input Voltage Range	Vin	-0.3 to +6.0	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	lin	-	.45	.51	Adc
Operating Frequency	Fo	32	37	42	KHz
Minimum Output Voltage	Vout (min)	1100	-	-	Vrms
Efficiency	η	-	78	-	%
Output Current	Iout	-	5.4	-	marms
Output Voltage (when Powering a load simulating the characteristics of the referenced display)	Vout	-	325	-	Vrms

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

Typical Performance Curves

