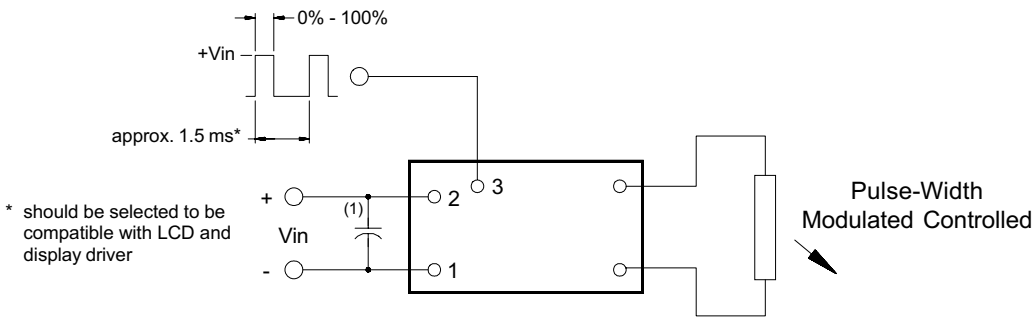


SE2296

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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SE2296

Specifications and
Applications Information

8/30/99

Preliminary

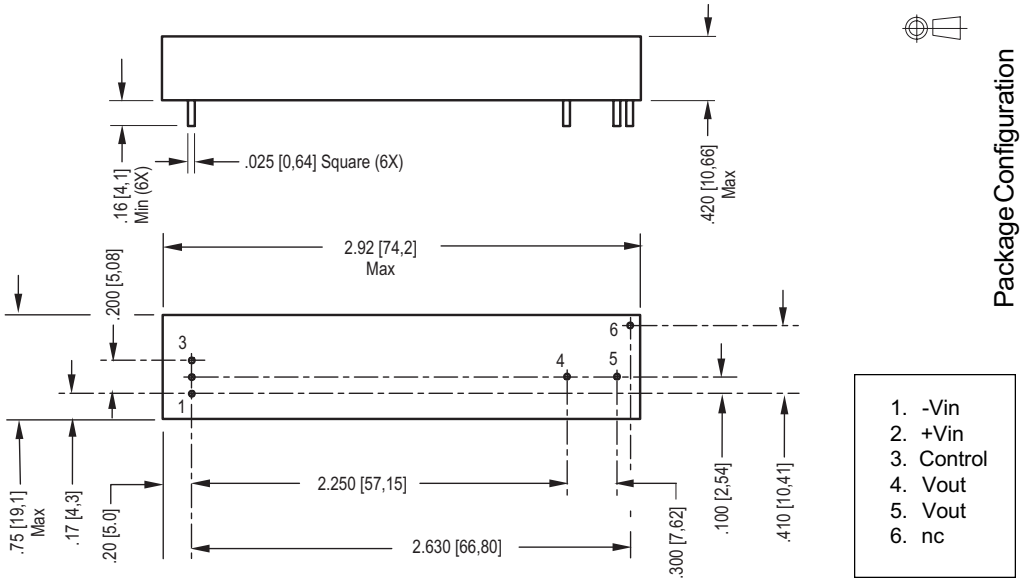
8m Class
DC to AC Inverter

The SE2296 (*S-Series*) dc to ac inverter is specifically designed to power the Optrex DMF50081 LCD display to a moderate brightness level from a +5 volt dc source.

The SE2296's small size and encapsulated package makes it the ideal power source for applications where size, high efficiency and reliability are critical.

This standard inverter is designed to satisfy the most common cold-cathode lighting requirements for the Optrex DMF50081 display. Custom units, providing different inputs, outputs or package refinements are available.

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	lout	-	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

