APPLIED CONCEPTS INC.
397 Route 281 - P.O. BOX 1175
Tully, New York 13159-1175
Phone: (315) 696-6676 Fax: (315) 696-9923
www.acipower.com

AC-1558A

CCFL INVERTER

(For Single Tube Applications)

09/27/2005

GENERAL DESCRIPTION

This AC-1558A is designed to power typically 1 CCFL up to power level of 3.25 watts from a nominal +12V source.

MECHANICAL / ENVIRONMENTAL

Weight = 14.1 grams

Altitude = 10,000 Ft maximum

Humidity < 85% non-condensing

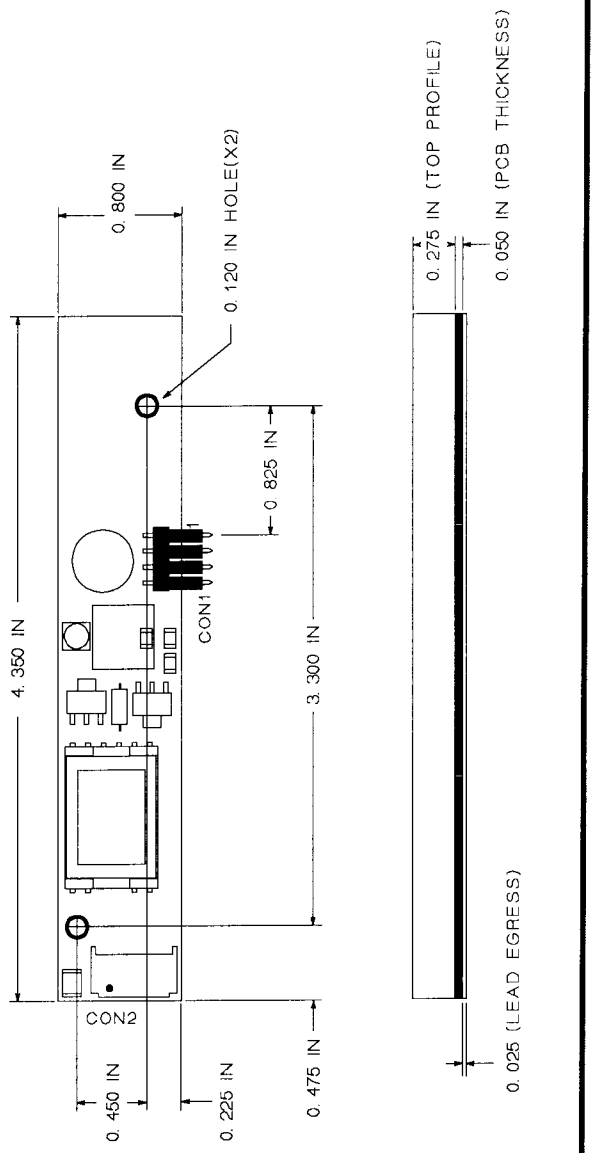
Size (L x W x H) = 4.35 IN x 0.8 IN x 0.35 IN

PCB thickness = 0.047 IN

Mounting Holes = 0.120 IN diameter (X2)

Input Power & Control Connector = CON1

CCFL Output Connector = CON2



INPUT CONNECTOR
CON1
MOLEX 22-28-1040

PIN #	FUNCTION
1	+VIN
2	GND
3	N/A
4	N/A

OUTPUT CONNECTOR
CON2
JST SM03(4.0)B-BHS-1-TB

PIN #	FUNCTION
1	CCFL HOT
2	NC
3	CCFL COLD

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MAXIMUM RATINGS*

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Symbol	Parameter	Value	Unit
Vin	Supply Voltage (Referenced to Ground)	-0.7 to 14	Vdc
Vip	Voltage applied to any Input Pin (Referenced to Ground)	-0.7 to 5.7	Vdc
Pin	Input power(DC Input Voltage x DC Input Current)	6	W
Top	Operating Temperature (Still air ambient around Inverter)	0 to +70	DegC
Tstg	Storage Temperature	-20 to +105	DegC

* Maximum Ratings are those values beyond which damage to the inverter may occur

RECOMMENDED OPERATING CONDITIONS

Symbol	Parameter	Min	Max	Unit
Vin	Supply Voltage (Referenced to Ground)	10.8	13.2	Vdc
Lsv	Cold Cathode Flourescent Lamp Sustaining Voltage	485	815	Vrms

ELECTRICAL CHARACTERISTICS

Vin = +12V, Lsv = 650Vrms, Unless otherwise specified

Symbol	Parameter	Test Conditions	Min	Max	Unit
Lstart	Lamp Starting Voltage		1800		Vrms
Lout	Lamp Output Current		4.5	5.5	mArms
Lfreq	Lamp-Current Frequency		38.5	47.0	Khz
Iin	Input Current Draw			0.350	Adc
Eff	Electrical Efficiency		85		%