

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

AC7-V0-1551

PRODUCT DATA SHEET - PAGE 1 OF 2

CCFL INVERTER

(For Dual Tube Applications)

07/21/05

GENERAL DESCRIPTION

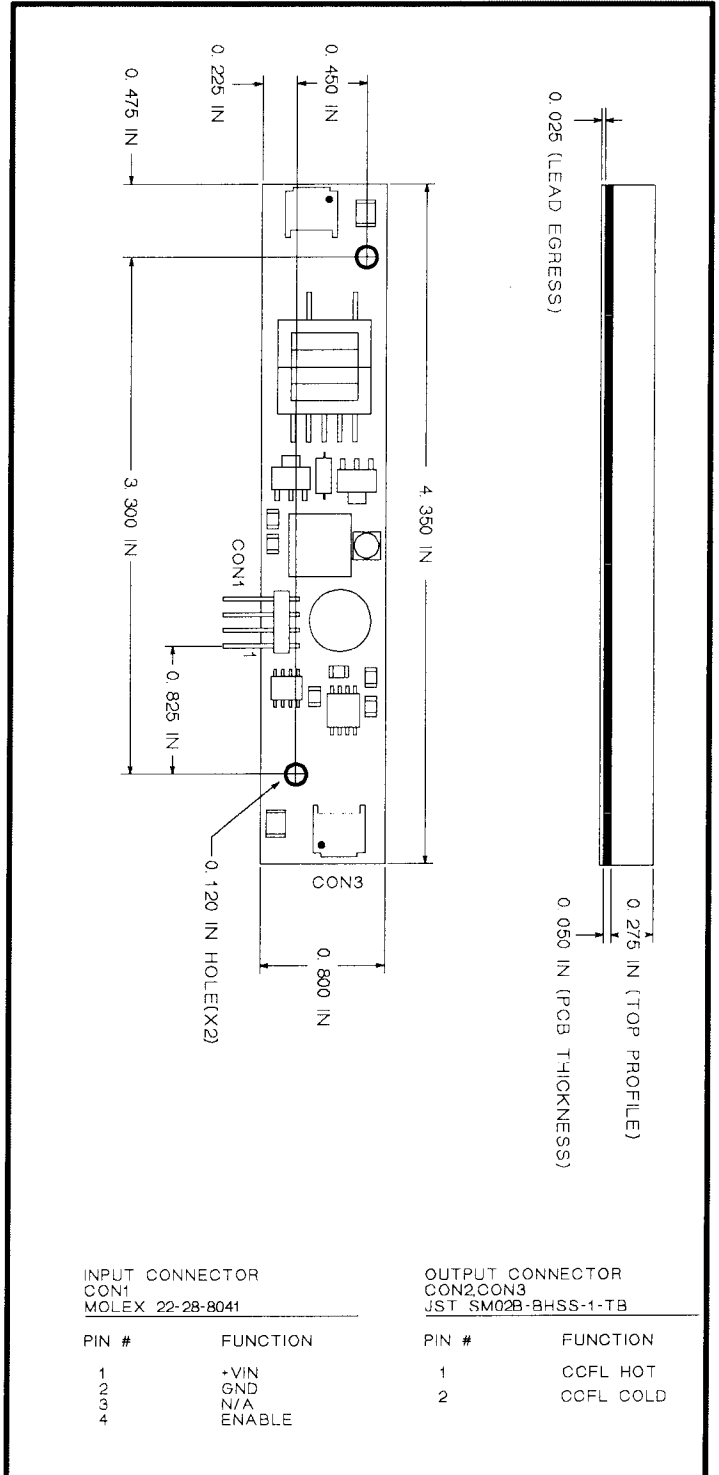
This AC7-V0-1551 is designed to power typically 2 CCFL's up to power levels of 6.3 watts from a nominal +12V source

Enable control is accomplished @ pin 4 of CON1.

All outputs are open and short circuit protected.

MECHANICAL / ENVIRONMENTAL

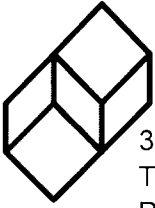
Weight = 14.1 grams
Altitude = 10,000 Ft maximum
Humidity < 85% non-condensing
Size (L x W x H) = 4.35 IN x 0.8 IN x 0.35 IN
PCB thickness = 0.047 IN
Mounting Holes = 0.120 IN diameter (X2)
Input Power & Control Connector = CON1
CCFL Output Connectors = CON2, CON3



INPUT CONNECTOR
CON1
MOLEX 22-28-8041

OUTPUT CONNECTOR
CON2, CON3
JST SM02B-BHSS-1-TB

PIN #	FUNCTION	PIN #	FUNCTION
1	+VIN	1	CCFL HOT
2	GND	2	CCFL COLD
3	N/A		
4	ENABLE		



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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
Iop	Current sourced or sinked from any Output Pin	+/- 10	mAdc
Pin	Input Power (DC Input Voltage x DC Input Current)	7.5	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 Fluorescent Lamp Sustaining Voltage	400	600	Vrms

ELECTRICAL CHARACTERISTICS

Vin = +12V, Lsv = 500Vrms, Enable = +5V unless otherwise specified

Symbol	Parameter	Test Conditions	Min	Max	Unit
Lstart	Lamp Starting Voltage		1450		Vrms
Lout	Lamp Output Current		5.6	6.9	mArms
Lfreq	Lamp-Current Frequency		44	54	Khz
ENoff	Enable Control	Unit OFF (Pin 4)		0.7	Vdc
ENon	Enable Control	Unit ON (Pin 4)	2.0		Vdc
Iin	Input Current Draw			0.680	Adc
Eff	Electrical Efficiency		85		%