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Kevin Kuo		ISSUE : JUN.21,2002
APPROVED BY:		TOTAL PAGE : 3
<i>Roger Yang</i>		VERSION : 3

MATERIAL SPECIFICATIONS

PART NAME :
CCFL INVERTER
CODE NO. :
IA-EM02A1 (51-30000-5)
FOR MESSRS :

CUSTOMER'S APPROVAL

DATE :

BY :

RECORDS OF REVISION

DOC . FIRST ISSUE

APR.02,1999

DATE	REVISED PAGE NO.	SUMMARY																																																																																								
JUN.18,2002	1	<p>2. ELECTRICAL SPECIFICATION</p> <table border="1"> <thead> <tr> <th>ITEM</th> <th>SYMBOL</th> <th>MIN.</th> <th>TYP.</th> <th>MAX.</th> <th>UNIT</th> <th>MAKER</th> </tr> </thead> <tbody> <tr> <td>INPUT VOLTAGE</td> <td>Vin</td> <td>4.5</td> <td>5</td> <td>5.5</td> <td>V</td> <td rowspan="6">All value is base on Vin = 5V Load = 41K ohms → Ta = 25 °C</td> </tr> <tr> <td>INPUT CURRENT</td> <td>Iin</td> <td>260</td> <td>300</td> <td>350</td> <td>mA</td> </tr> <tr> <td>OSCILLATION FREQUENCY</td> <td>f</td> <td>43.0</td> <td>48.0</td> <td>53.0</td> <td>KHZ</td> </tr> <tr> <td>OUTPUT CURRENT</td> <td>Iout</td> <td>4.3</td> <td>5</td> <td>5.7</td> <td>mArms</td> </tr> <tr> <td>OUTPUT OPEN VOLTAGE</td> <td>Vopen</td> <td>600</td> <td>735</td> <td>830</td> <td>Vrms</td> </tr> <tr> <td>OUTPUT LOAD VOLTAGE</td> <td>Vload</td> <td>—</td> <td>240</td> <td>—</td> <td>Vrms</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>ITEM</th> <th>SYMBOL</th> <th>MIN.</th> <th>TYP.</th> <th>MAX.</th> <th>UNIT</th> <th>MAKER</th> </tr> </thead> <tbody> <tr> <td>INPUT VOLTAGE</td> <td>Vin</td> <td>4.5</td> <td>5</td> <td>5.5</td> <td>V</td> <td rowspan="6">All value is base on Vin = 5V Load = 2.6∅ Tube Diameter 100mm Tube Length Ta = 25 °C</td> </tr> <tr> <td>INPUT CURRENT</td> <td>Iin</td> <td>300</td> <td>350</td> <td>400</td> <td>mA</td> </tr> <tr> <td>OSCILLATION FREQUENCY</td> <td>f</td> <td>45.0</td> <td>50.0</td> <td>55.0</td> <td>KHZ</td> </tr> <tr> <td>OUTPUT CURRENT</td> <td>Iout</td> <td>4.3</td> <td>5</td> <td>5.7</td> <td>mArms</td> </tr> <tr> <td>OUTPUT OPEN VOLTAGE</td> <td>Vopen</td> <td>600</td> <td>735</td> <td>830</td> <td>Vrms</td> </tr> <tr> <td>OUTPUT LOAD VOLTAGE</td> <td>Vload</td> <td>250</td> <td>300</td> <td>350</td> <td>Vrms</td> </tr> </tbody> </table>	ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT	MAKER	INPUT VOLTAGE	Vin	4.5	5	5.5	V	All value is base on Vin = 5V Load = 41K ohms → Ta = 25 °C	INPUT CURRENT	Iin	260	300	350	mA	OSCILLATION FREQUENCY	f	43.0	48.0	53.0	KHZ	OUTPUT CURRENT	Iout	4.3	5	5.7	mArms	OUTPUT OPEN VOLTAGE	Vopen	600	735	830	Vrms	OUTPUT LOAD VOLTAGE	Vload	—	240	—	Vrms	ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT	MAKER	INPUT VOLTAGE	Vin	4.5	5	5.5	V	All value is base on Vin = 5V Load = 2.6∅ Tube Diameter 100mm Tube Length Ta = 25 °C	INPUT CURRENT	Iin	300	350	400	mA	OSCILLATION FREQUENCY	f	45.0	50.0	55.0	KHZ	OUTPUT CURRENT	Iout	4.3	5	5.7	mArms	OUTPUT OPEN VOLTAGE	Vopen	600	735	830	Vrms	OUTPUT LOAD VOLTAGE	Vload	250	300	350	Vrms
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JUN.18,2002	1	<p>2. ELECTRICAL SPECIFICATION OUTPUT LOAD VOLTAGE : MIN. = 250 → 280 , MAX. = 350 → 320</p>																																																																																								

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1. **FEATURE**

1.1 LCM CCFL DRIVING INVERTER UNIT.

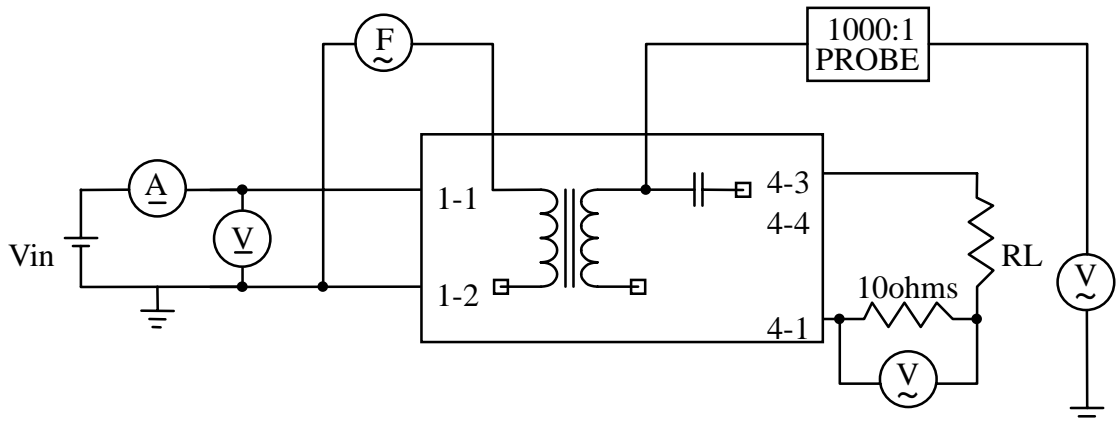
2. **ELECTRICAL SPECIFICATION**

2.1 OPERATION VOLTAGE : 4V~6V

2.2

ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT	MAKER
INPUT VOLTAGE	V _{in}	4.5	5	5.5	V	All value is base on V _{in} = 5V Load = 2.6∅ Tube Diameter 100mm Tube Length T _a = 25 °C
INPUT CURRENT	I _{in}	300	350	400	mA	
OSCILLATION FREQUENCY	f	45.0	50.0	55.0	KHZ	
OUTPUT CURRENT	I _{out}	4.3	5	5.7	mArms	
OUTPUT OPEN VOLTAGE	V _{open}	600	735	830	Vrms	
OUTPUT LOAD VOLTAGE	V _{load}	280	300	320	Vrms	

2.3 MEASUREMENT



NOTE : The probe be connected to inverter when you want to measurement the output open voltage .

2.3.1 TEST EQUIPMENT

- (A) DC CURRENT METER
2011 (YEW) or equivalent
DIGITAL Mutil-Meter
- (V) GDM-8145(GW) or equivalent
- (V) RMS VOLTAGE METER
HP 3400B(HP).PROBE HP1137A(HP)
- (F) FREQUENCY COUNTER
1212(Topward) or equivalent

3. **INTERFACE SIGNALS**

3.1 INPUT CONNECTOR : (JAE IL-S-2P-S2T2-EF)

PIN NO.	SIGNAL
JP1-1	Vin
JP1-2	GND

3.2 OUTPUT CONNECTOR : (JAE IL-G-4P-S3L2-E)

PIN NO.	SIGNAL
JP4-1	VL
JP4-2	NC

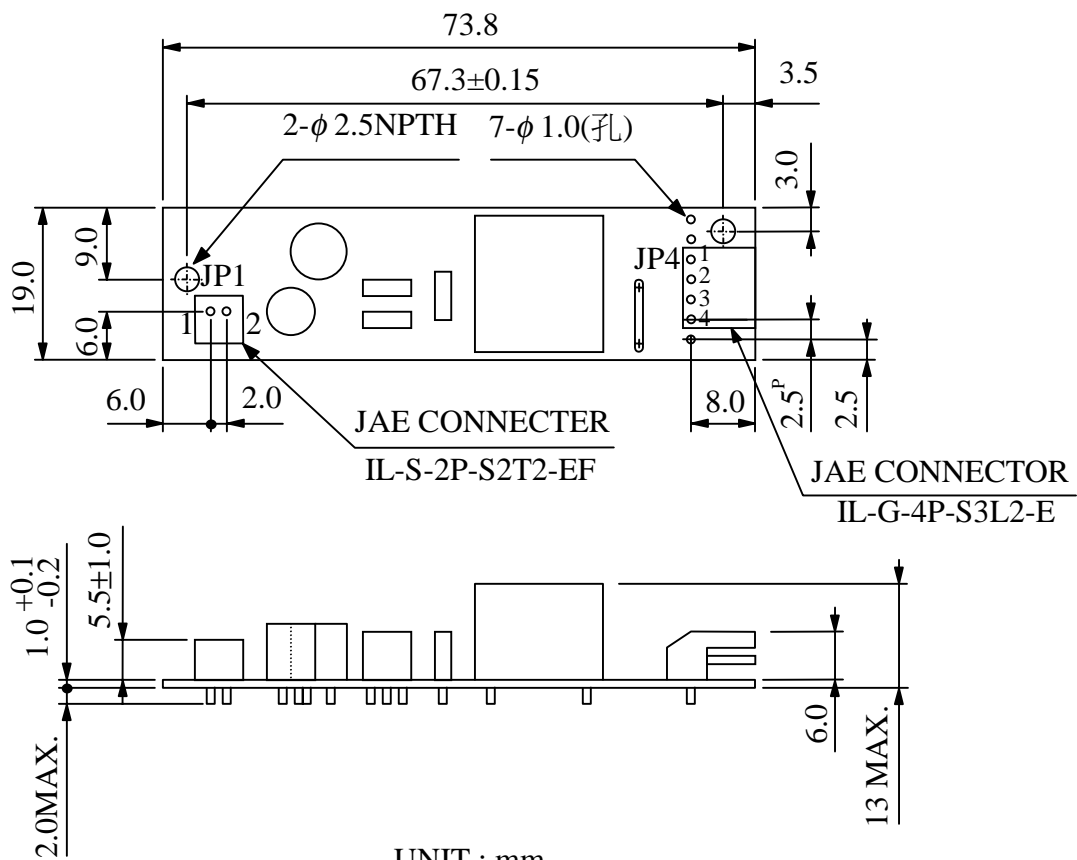
PIN NO.	SIGNAL
JP4-3	VH
JP4-4	VH

4. **OPERATING ENVIRONMENT**

OPERATING TEMPERATURE RANGE : -10 ~ 50°C Less than 95 % RH .

STORAGE TEMPERATURE RANGE : -20 ~ 80°C Less than 95 % RH .

5. DIMENSION



UNIT : mm
SCALE : NTS
NOT SPECIFIED TOLERANCE IS ±0.5 mm