EXAMINED BY : Kevin Kuo	EMERGING DISPLAY TECHNOLOGIES CORPORATION	FILE NO . MTL-00050
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APPROVED BY: Roger Yang		TOTAL PAGE : 3
		VERSION : 3

MATERIAL SPECIFICATIONS

PART NAME :

CCFL INVERTER

CODE NO. :

IA-EM02A1 (51-30000-5)

FOR MESSRS :

CUSTOMER'S APPROVAL

DATE :

BY :

ACDS 175-177 route de Genas - 69100 VILLEURBANNE - France
Tél : +33 4 72 91 26 80 - **Fax** : +33 4 72 35 18 06
Web site: http://www.acds.fr Email: edt@acds.fr

EMERGING DISPLAY TECHNOLOGIES CORPORATION	CODE NO. 51-30000-5	VERSION 3
RECORDS OF REVISION	DOC. FIRST ISSUE APR.02,1999	

DATE	REVISED PAGE NO.	SUMMARY
JUN.18,2002	1	2. ELECTRICAL SPECIFICATION

ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT	MAKER
INPUT VOLTAGE	Vin	4.5	5	5.5	V	All value is base on
INPUT CURRENT	Iin	260	300	350	mA	Vin = 5V
OSCILLATION FREQUENCY	f	43.0	48.0	53.0	KHZ	Load = 41K ohms →
OUTPUT CURRENT	Iout	4.3	5	5.7	mArms	Ta = 25 °C
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
INPUT CURRENT	Iin	300	350	400	mA	Vin = 5V
OSCILLATION FREQUENCY	f	45.0	50.0	55.0	KHZ	Load = 2.6∅ Tube Diameter
OUTPUT CURRENT	Iout	4.3	5	5.7	mArms	100mm Tube Length
OUTPUT OPEN VOLTAGE	Vopen	600	735	830	Vrms	Ta = 25 °C
OUTPUT LOAD VOLTAGE	Vload	250	300	350	Vrms	

JUN.18,2002	1	2. ELECTRICAL SPECIFICATION OUTPUT LOAD VOLTAGE : MIN. = 250 → 280 , MAX. = 350 → 320

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1. FEATURE

1.1 LCM CCFL DRIVING INVERTER UNIT.

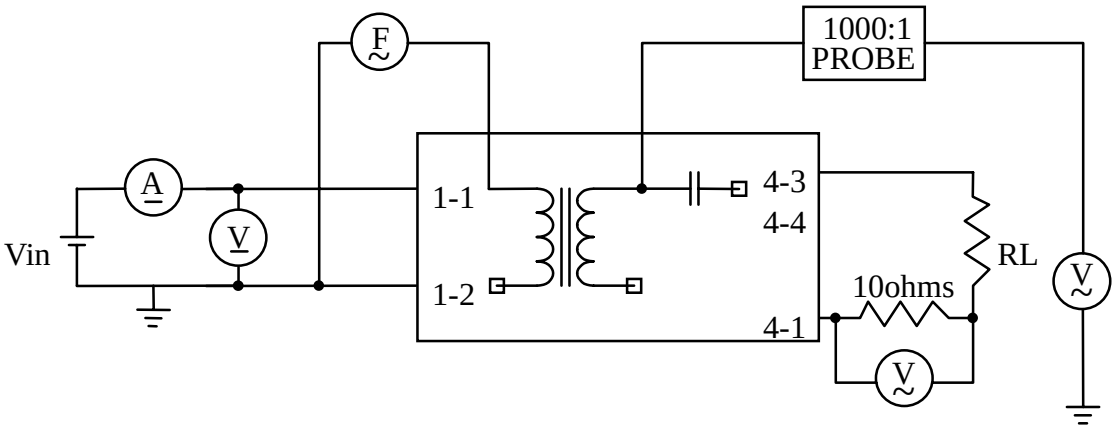
2. ELECTRICAL SPECIFICATION

2.1 OPERATION VOLTAGE : 4V~6V

2.2

ITEM	SYMBOL	MIN.	TYP.	MAX.	UNIT	MAKER
INPUT VOLTAGE	Vin	4.5	5	5.5	V	All value is base on
INPUT CURRENT	Iin	300	350	400	mA	Vin = 5V
OSCILLATION FREQUENCY	f	45.0	50.0	55.0	KHZ	Load = 2.6∅ Tube Diameter
OUTPUT CURRENT	Iout	4.3	5	5.7	mArms	100mm Tube Length
OUTPUT OPEN VOLTAGE	Vopen	600	735	830	Vrms	Ta = 25 °C
OUTPUT LOAD VOLTAGE	Vload	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

Ⓐ DC CURRENT METER
2011 (YEW) or equivalent
DIGITAL Mutil-Meter

Ⓥ GDM-8145(GW) or equivalent

Ⓥ~ RMS VOLTAGE METER
HP 3400B(HP).PROBE HP1137A(HP)

Ⓕ~ FREQUENCY COUNTER
1212(Topward) or equivalent

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3. INTERVACE 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 .

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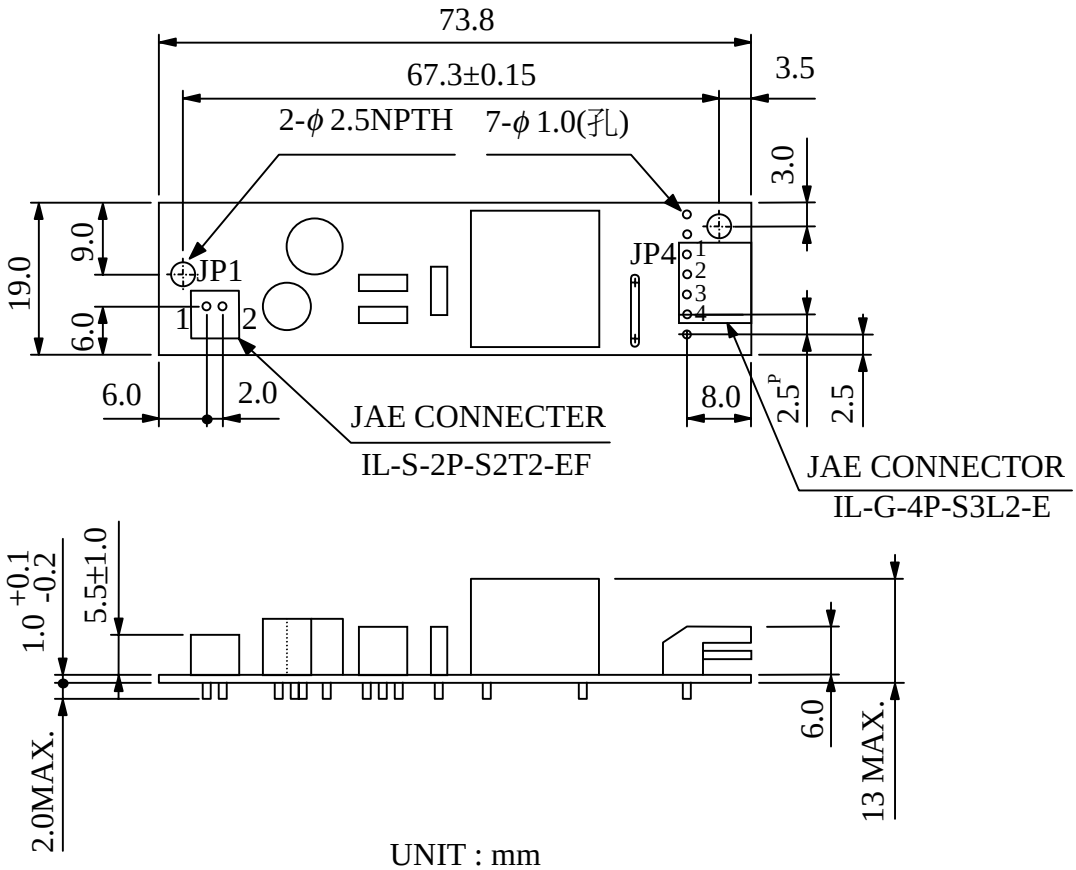
5. **DIMENSION**



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

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