



Hunan Huayuan display technology CO.,LTD

GH320240-5702

STN DOTS LCD MODULE

SPECIFICATION

Standard code	Department	Rev No.
BND11008A		A/0
Checked by	Written by	Date
		2013-12-17

1. GENERAL SPECIFICATIONS
2. ELECTRICAL CHARACTERISTICS
3. ABSOLUTE MAXIMUM RATINGS
4. EXTERNAL DIMENSIONS
5. INTERFACE DESCRIPTION
6. BLOCK DIAGRAM
7. RELIABILITY TEST

1、 GENERAL SPECIFICATIONS

Screen size:	5.7"(Diagonal)
Display color:	Display color: White ; Background color: Blue
View angle direction:	6'clock
Driver mode:	1/240 DUTY 1/16BIAS
Backlight :	CCFL
Controller IC :	--- ; Driver IC: IST3025T, IST3026T or NT7701,NT7702 compatible IC
Number of Dots:	320 x 240
Dot size :	0.33 x 0.33mm
Dot pitch:	0.36 x 0.36mm
Viewing size:	121 x 91.6mm
Active area:	115.17 x 86.37mm
Outline dimension:	165.55 x 109.0x 6.8mm Max.
Weight :	140 g

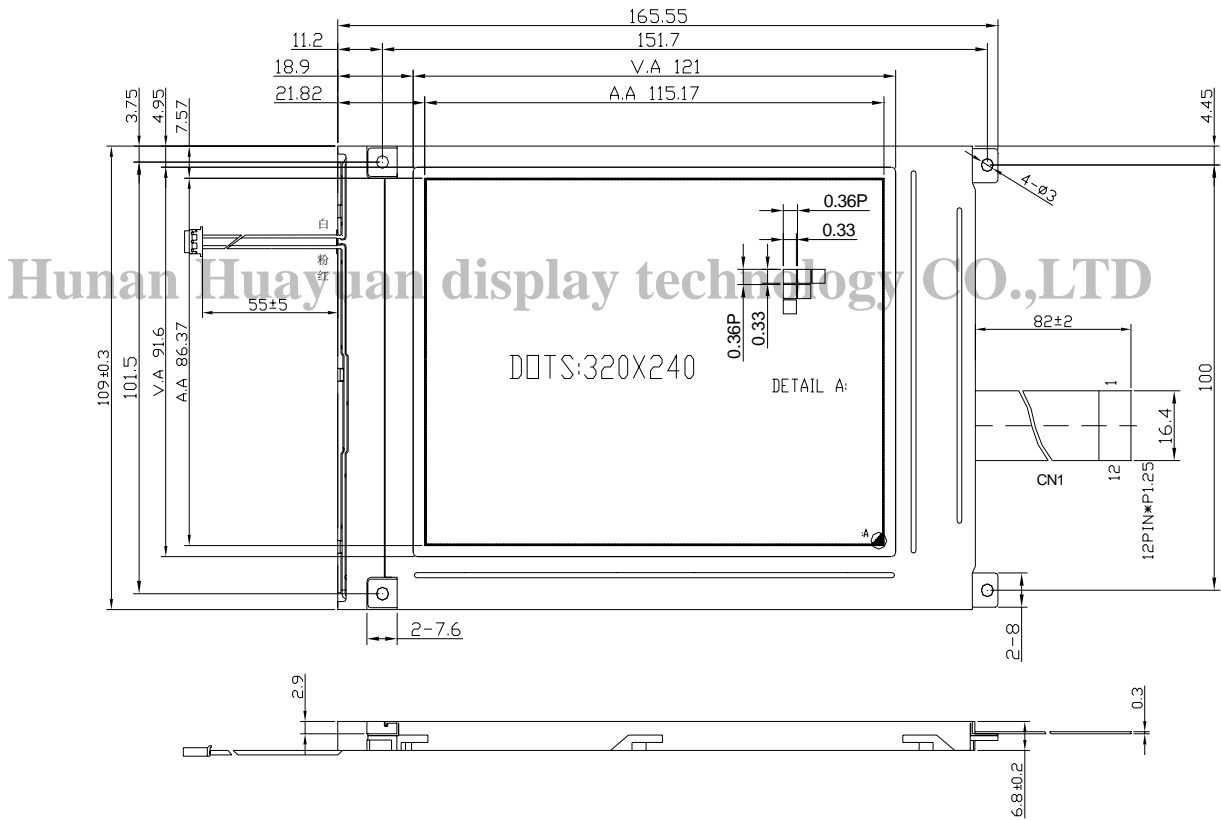
2、 ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Min	Type	Max	Unit	
Supply voltage for logic	$V_{DD}-V_{SS}$	4.8	5	5.2	V	
Supply Voltage for LCD Driving	$V_{SS}-V_0$	Ta=0 °C	-	21.7		-
		Ta=25 °C	20.8	21.2		21.6
		Ta=50 °C	-	20.7		-
Input Voltage	V_{IH}	$0.7 V_{DD}$	-	V_{DD}	V	
	V_{IL}	0	-	$0.3 V_{DD}$		
Supply Voltage for CCFL	V_{CCFL}	-	AC700-900	AC700-900	V/AC	
Supply Current for CCFL	I_{CCFL}	-	-	-	mA	

3、 ABSOLUTE MAXIMUM RATINGS

Parameter	Symbol	Min	Max	Unit	Remark
Supply voltage for logic	$V_{DD}-V_{SS}$	-0.3	7.0	V	
Supply Voltage for LCD Driving	$V_{LCD}-V_{DD}$	-0.3	26		
Operating temperature	T_{OP}	-20	+70	°C	
Storage temperature	T_{ST}	-30	+80		
Humidity	RH :	90%	50		(Max)

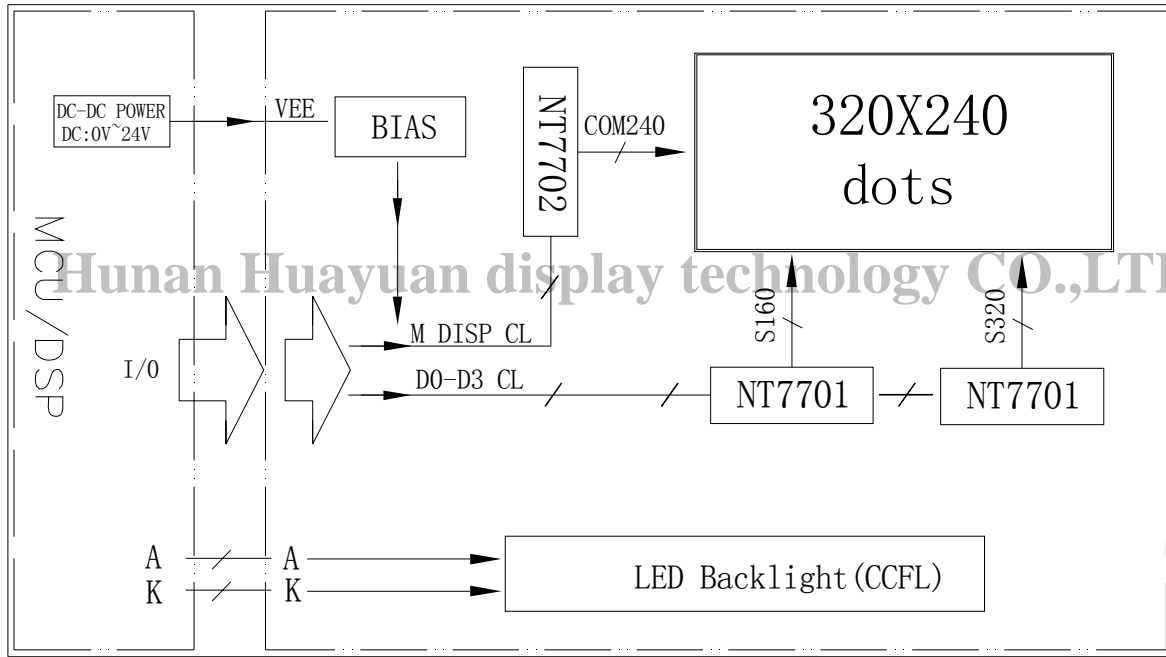
4、 EXTERNAL DIMENSIONS



5、 INTERFACE DESCRIPTION

PIN	DESC	Function
1	S	Frame signal
2	CL1	Line latch signal
3	CL2	Clock signal
4	NC	—
5	DISP	Display switch。 L: (Close), H: (Open)
6	D0	Data Bus
7	D1	Data Bus
8	D2	Data Bus
9	D3	Data Bus
10	VDD	Power supply for Logic circuit and LCD
11	VSS	Ground
12	VEE	Negative voltage output

6、 BLOCK DIAGRAM



7、 RELIABILITY TEST

NO	Test Project	Test Condition	Remark
1	High temperature	60°C ± 2°C 24H	After testing, the appearance and electrical performance deficiencies should not happen.
2	High temperature	-20°C ± 2°C 24H	
3	High temperature and humidity test	40°C ± 5°C × 90%RH/24H	
4	Hot and cool shock test	-10°C ± 2 → 25°C → 70°C ± 2 (30min) (5min) (30min) 10 cycles	
5	Vibration test	10Hz-50Hz-10Hz Amplitude 1.5mm X、Y、Z each 3H	

Remark:

1. Above test number is 2 piece.
2. Do moistureproof test, should use the pure water (10M Ω resistor ").

3.individual products caused by electrostatic discharge failure damage, if the products will be reset after the restore to the normal state as a good use.

When the panel protective film LCM, Tear down the labels slowly (more than a second recommendation).

4 Please use the automatic switching menu (or scroll) test mode, test mode of operation.

5 Suggestions Use the menu to adjust the contrast model.