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華凌光電股份有限公司
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SPECIFICATION

CUSTOMER : _____

MODULE NO.: WF35-320240LD#004-FC

General Specifications

Item	Dimension	Unit
Size	3.5	inch
Dot Matrix	320 x RGBx240(TFT)	dots
Module dimension	93.5x 66.44x 6.0 (Max)	mm
Active area	70.08 x 52.56	mm
Dot pitch	0.073 x 0.219	mm
LCD type	TFT, Normally White, Transmissive	
View Direction	12 o'clock	
Gray Scale Inversion Direction	6 o'clock	
Backlight Type	LED,Normally White	
With /Without TP	Without TP	
Surface	Anti-Glare	

*Color tone slight changed by temperature and driving voltage.

Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	TOP	-20	—	+70	℃
Storage Temperature	TST	-30	—	+80	℃

Note: Device is subject to be damaged permanently if stresses beyond those absolute maximum ratings listed above

1. Temp. ≦60℃, 90% RH MAX. Temp.＞60℃, Absolute humidity shall be less than 90% RH at 60℃

Electrical Characteristics

Operating conditions:

Item	Symbol	Condition	Min	Typ	Max	Unit	Remark
Supply Voltage For LCM	VCC	—	3.0	3.3	3.6	V	
Supply Current For LCM	ICC	—	—	8.6	15	mA	Note 1

Note 1 : This value is test for VCC =3.3V , Ta=25 ℃ only

LED driving conditions

Parameter	Symbol	Min.	Typ.	Max.	Unit	Remark
LED current		-	20	-	mA	
Power Consumption		348	384	408	mW	
LED voltage	LED+	17.4	19.2	20.4	V	Note 1
LED Life Time		-	50,000	-	Hr	Note 2,3,4

Note 1 : There are 1 Groups LED

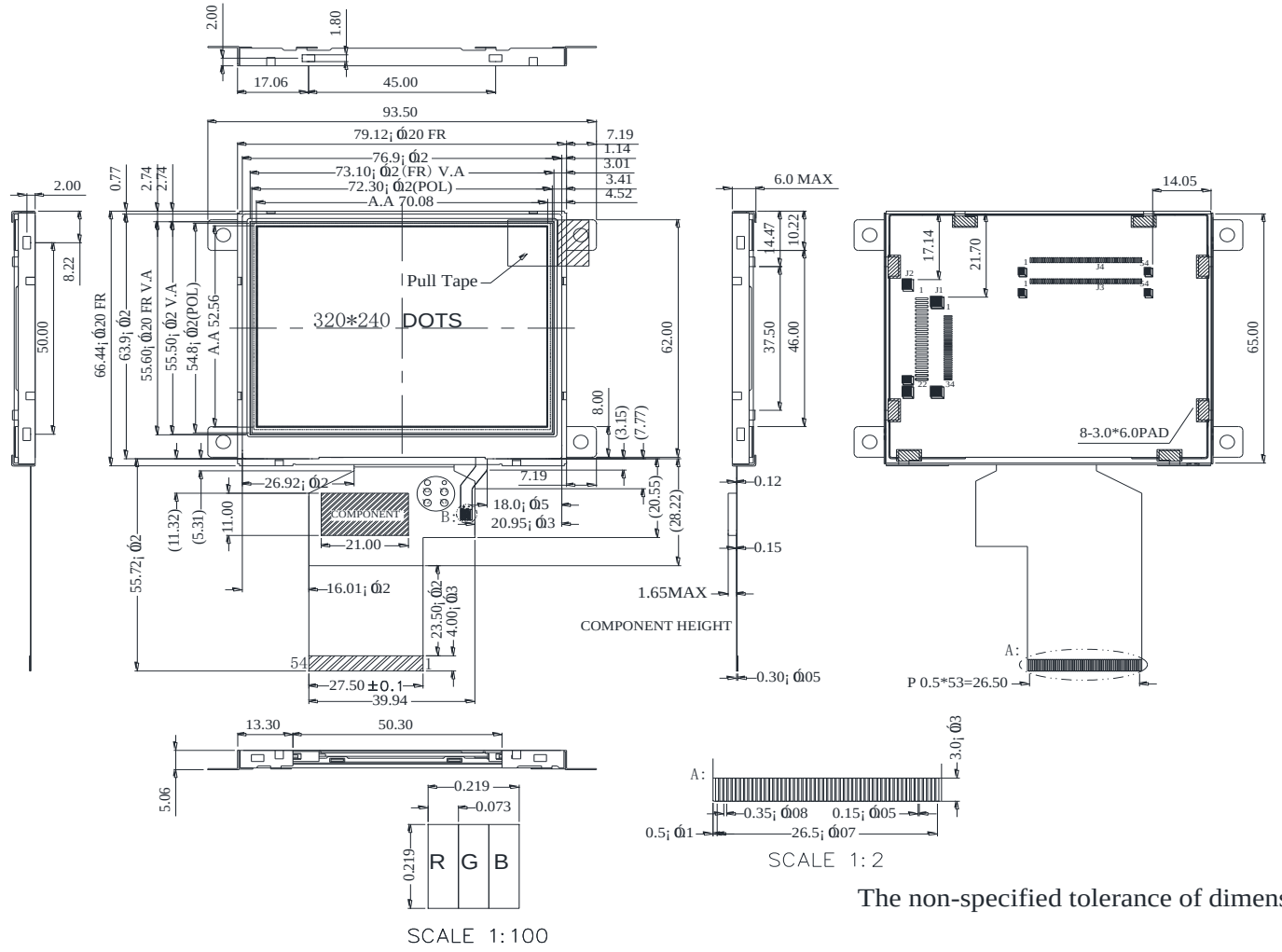
Interface

LCM PIN Definition

Pin	Symbol	Function	Remark
1	**LED-**	Power for LED backlight cathode	
2	**LED-**	Power for LED backlight cathode	
3	**LED+**	Power for LED backlight anode	
4	**LED+**	Power for LED backlight anode	
5	**NC**	No connect	
6	**NC**	No connect	
7	**NC**	No connect	
8	**/RESET**	Hardware reset	
9	**SPENA**	Chip select pin of serial interface	
10	**SPCLK**	Clock pin of serial interface	
11	**SPDAT**	Data input pin in serial mode	
12	**B0**	Data bus	
13	**B1**	Data bus	
14	**B2**	Data bus	
15	**B3**	Data bus	
16	**B4**	Data bus	
17	**B5**	Data bus	
18	**B6**	Data bus	
19	**B7**	Data bus	
20	**G0**	Data bus	
21	**G1**	Data bus	
22	**G2**	Data bus	
23	**G3**	Data bus	
24	**G4**	Data bus	
25	**G5**	Data bus	
26	**G6**	Data bus	
27	**G7**	Data bus	
28	**R0**	Data bus	
29	**R1**	Data bus	
30	**R2**	Data bus	
31	**R3**	Data bus	
32	**R4**	Data bus	
33	**R5**	Data bus	
34	**R6**	Data bus	
35	**R7**	Data bus	
36	**HSYNC**	Line synchronization signal	
37	**VSYNC**	Frame synchronization signal	
38	**DCLK**	Dot-clock signal and oscillator source	
39	**NC**	No connect	
40	**NC**	No connect	
41	**VCC**	Power Supply	
42	**VCC**	Power Supply	
43	**NC**	No connect	
44	**NC**	No connect	

45	**NC**	No connect	
46	**NC**	No connect	
47	**NC**	No connect	
48	**SEL2**	Input pin to select input interface mode	
49	**SEL1**	Input pin to select input interface mode	
50	**SEL0**	Input pin to select input interface mode	
51	**NC**	No connect	
52	**DE**	Display enable pin from controller. Internal pull high Connect to VCCIO or floating if not used	
53	**DGND**	System ground pin of the IC. Connect to system ground.	
54	**AVSS**	Grounding for analog circuit -Connect to system ground	

Contour Drawing



PIN NO.	SYMBOL	PIN NO.	SYMBOL
1	LED-	28	R0
2	LED-	29	R1
3	LED+	30	R2
4	LED+	31	R3
5	NC	32	R4
6	NC	33	R5
7	NC	34	R6
8	/RESET	35	R7
9	SPENA	36	HSYNC
10	SPCLK	37	VSYNC
11	SPDAT	38	DCLK
12	B0	39	NC
13	B1	40	NC
14	B2	41	VCC
15	B3	42	VCC
16	B4	43	NC
17	B5	44	NC
18	B6	45	NC
19	B7	46	NC
20	G0	47	NC
21	G1	48	SEL2
22	G2	49	SEL1
23	G3	50	SEL0
24	G4	51	NC
25	G5	52	DE
26	G6	53	DGND
27	G7	54	AVSS

The non-specified tolerance of dimension is ±0.3mm.