Winstar Display Co., LTD
華凌光電股份有限公司
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SPECIFICATION

MODULE NO.: WF35MTIBCDRT0#

General Specifications

Item	Dimension	Unit
Size	3.5	inch
Dot Matrix	320 x RGBx240(TFT)	dots
Module dimension	100(W) x 66.44(H) x 6.86 (D)	mm
Active area	70.08 x 52.56	mm
Dot pitch	0.219 x 0.073	mm
LCD type	TFT, Normally White, Transmissive	
View Direction	12 o'clock	
Gray Scale Inversion Direction	6 o'clock	
Backlight Type	LED,Normally White	
Interface	RS232 19200 Baud rate/SPI	
With /Without TP	With RTP	
Surface	Anti-Glare	

*Color tone slight changed by temperature and driving voltage

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Absolute Maximum Ratings

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

Electrical Characteristics

Operating conditions:

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage For LCM	VBUS	—	4.5	5	5.5	V
Supply Current For LCM	IBUS	—	—	160	240	mA
Power Consumption	—	VBUS=5V	—	800	1320	mW

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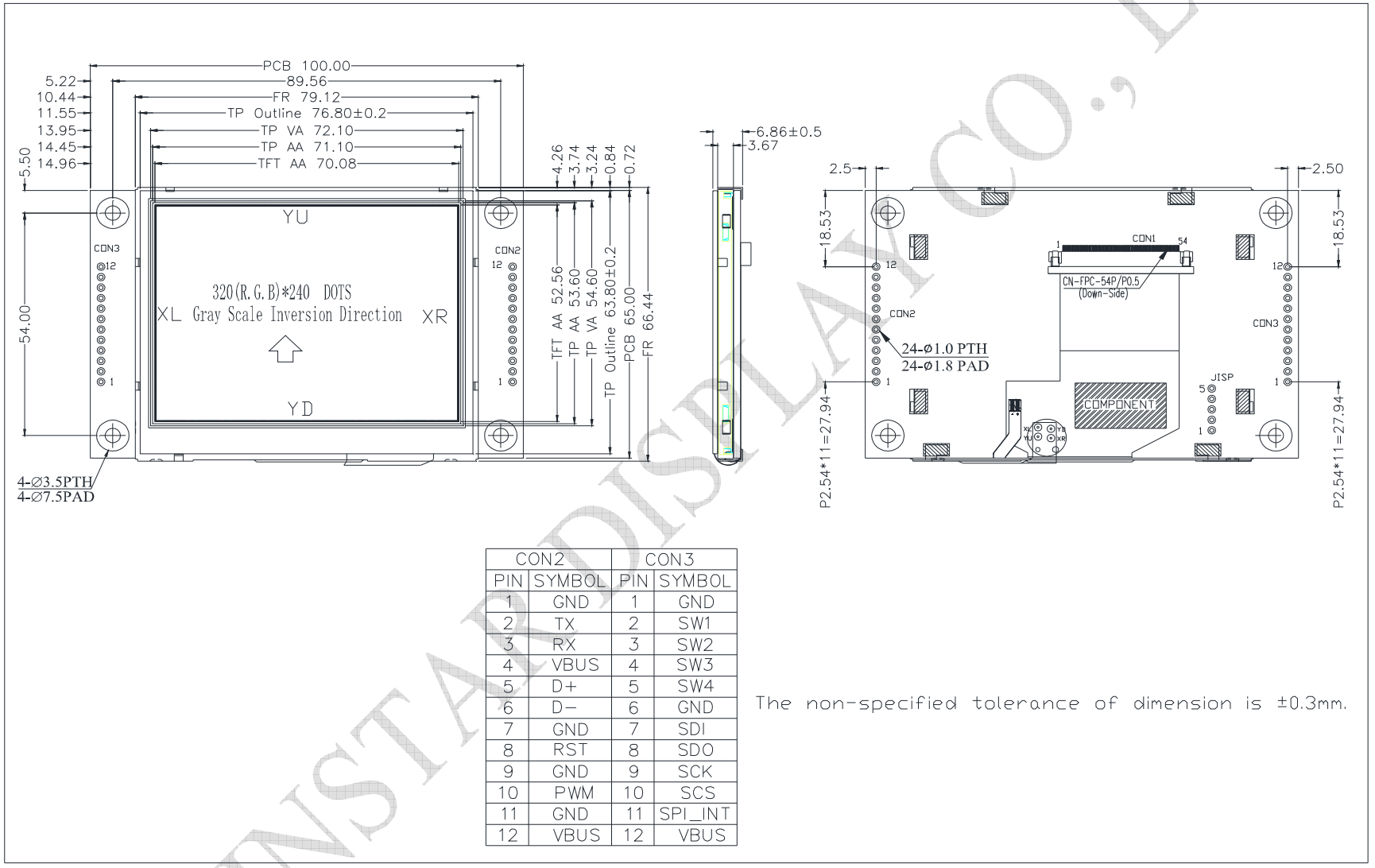
Interface

CON 2			
Pin	**Symbol**	**I/O**	**Function**
1	GND	Power Supply	Power Ground
2	TX	O	RS232 Transmit pin
3	RX	I	RS232 Receive pin
4	VBUS	Power Supply	Power supply : 5V
5	D+	I/O	USB Data +
6	D-	I/O	USB Data -
7	GND	Power Supply	Power Ground
8	/REST	I	Reset (active Low)
9	GND	Power Supply	Power Ground
10	PWM	O	Pulse width modulation
11	GND	Power Supply	Power Ground
12	VBUS	Power Supply	Power supply : 5V

CON 3			
Pin	**Symbol**	**I/O**	**Function**
1	GND	Power Supply	Power Ground
2	SW1	I	Switch (active low)
3	SW2	I	Switch (active low)
4	SW3	I	Switch (active low)
5	SW4	I	Switch (active low)
6	GND	Power Supply	Power Ground
7	SDI	I	Serial Data Input
8	SDO	O	Serial Data Output
9	SCK	I	Serial Clock
10	SCS	I	Serial Chip selection
11	SPI_INT	O	Serial Interrupt
12	VBUS	Power Supply	Power supply : 5V

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Contour Drawing



CON2		CON3	
PIN	SYMBOL	PIN	SYMBOL
1	GND	1	GND
2	TX	2	SW1
3	RX	3	SW2
4	VBUS	4	SW3
5	D+	5	SW4
6	D−	6	GND
7	GND	7	SDI
8	RST	8	SDO
9	GND	9	SCK
10	PWM	10	SCS
11	GND	11	SPI_INT
12	VBUS	12	VBUS

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

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