



RAYSTAR

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RFA515600A-1WW-LEN

General Specifications

- Size : 15.6 inch
- Dot Matrix : 1920 x RGB x 1080 dots
- Module dimension : 363.8(W) x 215.9(H) x 20.8 (D) mm
- Active area : 344.16 x 193.59 mm
- Pixel pitch : 0.17925 (H) x 0.17925 (V) mm
- LCD type : TFT, Normally Black, Transmissive
- Viewing Angle : 89/89/89/89 (IPS)
- Backlight Type : LED, Normally White
- Controller IC : CH7513A-BFI
- Interface : eDP
- Touch Panel : Without Touch Panel
- Surface : Anti-Glare

Interface

CON2 : LCM PIN Definition

Pin No.	Signal Name	Description
1	NC	Not connection
2	GND	Ground
3	DP1-	Complement Signal Link Lane 1
4	DP1+	True Signal Line 1
5	GND	Ground
6	DP0-	Complement Signal Link Lane 0
7	DP0+	True Signal Line 0
8	GND	Ground
9	AUX+	True Signal Auxiliary Ch.
10	AUX-	Complement Signal Auxiliary Ch.
11	GND	Ground
12-14	NC	Not connection (If Pin 12 and Pin 13 have voltage input, it will not affect the use)
15-16	GND	Ground
17	HPD	HPD Signal Pin
18-21	GND	Ground
22	NC(BL_EN)	Not connection
23	NC(BL_PWM)	Not connection
24-30	NC	Not connection (If Pin 26~Pin 29 have voltage input, it will not affect the use)

CON3 : Backlight PIN Definition

Pin No.	Signal Name	Description
1	GND	Ground
2	BL_EN	Back light Enable
3	BL_UP	Back light Increment Backlight Brightness
4	BL_DN	Back light Decrement Backlight Brightness

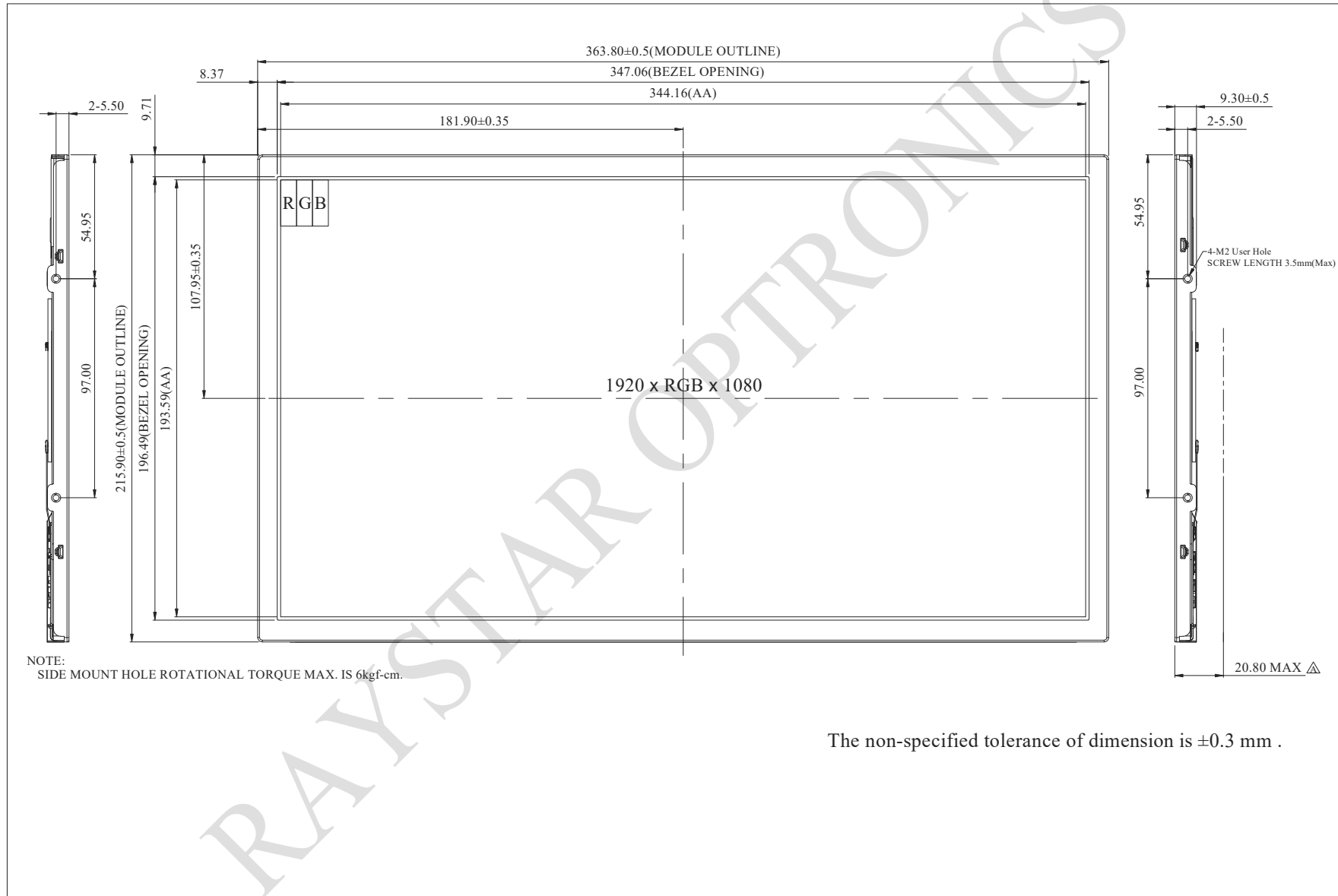
P1 : Supply Voltage For LCM

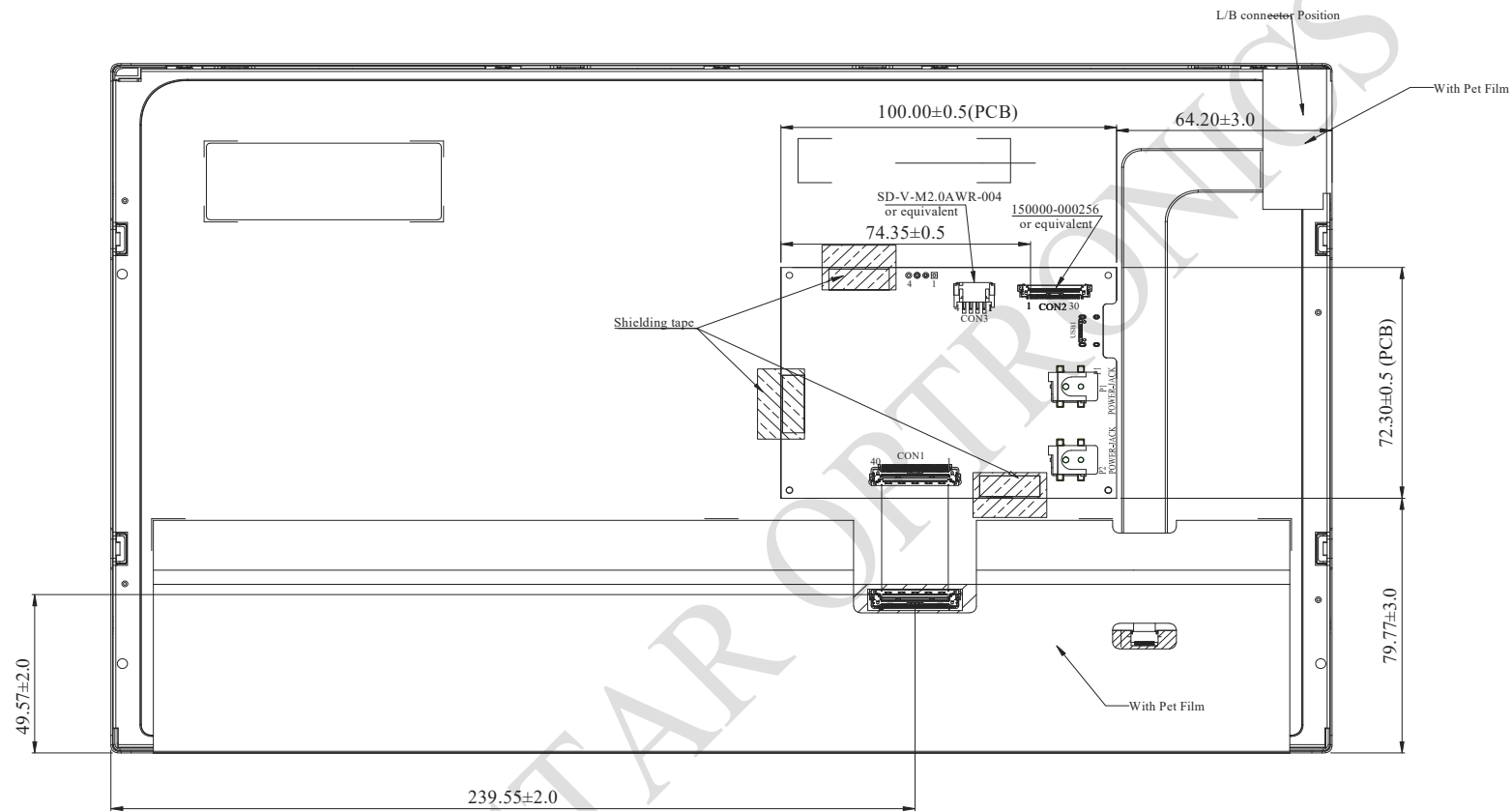
Pin No.	Signal Name	Description
1	5V	Power supply +5V
2	GND	Ground
3	NC	Not connection

P2 : Supply Voltage For Back Light

Pin No.	Signal Name	Description
1	12V	Power supply +12V
2	GND	Ground
3	NC	Not connection

Contour Drawing





CON3

PIN NO.	SYMBOL
1	GND
2	BL_EN
3	BL_UP
4	BL_DN

P1

PIN NO.	SYMBOL
1	5V
2	GND
3	NC
2	1
(GND)	(5V)

P2

PIN NO.	SYMBOL
1	12V
2	GND
3	NC
2	1
(GND)	(12V)

CON2

PIN NO.	SYMBOL	PIN NO.	SYMBOL	PIN NO.	SYMBOL	PIN NO.	SYMBOL	PIN NO.	SYMBOL	PIN NO.	SYMBOL
1	NC	6	DP0-	11	GND	16	GND	21	GND	26	NC
2	GND	7	DP0+	12	NC	17	HPD	22	NC(BL_EN)	27	NC
3	DP1-	8	GND	13	NC	18	GND	23	NC(BL_PWM)	28	NC
4	DP1+	9	AUX+	14	NC	19	GND	24	NC	29	NC
5	GND	10	AUX-	15	GND	20	GND	25	NC	30	NC

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

Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	TOP	-30	—	+85	°C
Storage Temperature	TST	-40	—	+90	°C

Electrical Characteristics

Operating conditions :

Item	Symbol	Min	Typ	Max	Unit
Supply Voltage For LCM	P1 VDD	4.7	5	5.3	V
Supply Current For LCM	P1 IDD	—	900	1350	mA

Backlight conditions :

Item	Symbol	Min	Typ	Max	Unit
Supply Voltage For Back Light	P2 VDD	11.5	12	12.5	V
Supply Current For Back Light	P2 IDD	—	1000	1500	mA
LED life time	—	—	50,000	—	Hr