



RAYSTAR

曜凌光電股份有限公司

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RFM1040F-AIW-LNN

SPECIFICATION

General Specifications

- Size: 10.4 inch
- Dot Matrix: 1024 x R.G.B. x 768 dots
- Module dimension: 236.0 x 176.9 x 5.7 mm
- Active area: 211.2 x 158.4 mm
- Dot pitch: 0.20625 x 0.20625 mm
- LCD type: TFT, Normally White, Transmissive
- Gray scale inversion direction: 6 o'clock
- Backlight Type: LED ,Normally White
- Interface: LVDS
- With /Without TP: Without TP
- Surface: Anti-Glare

*Color tone slight changed by temperature and driving voltage.

Interface

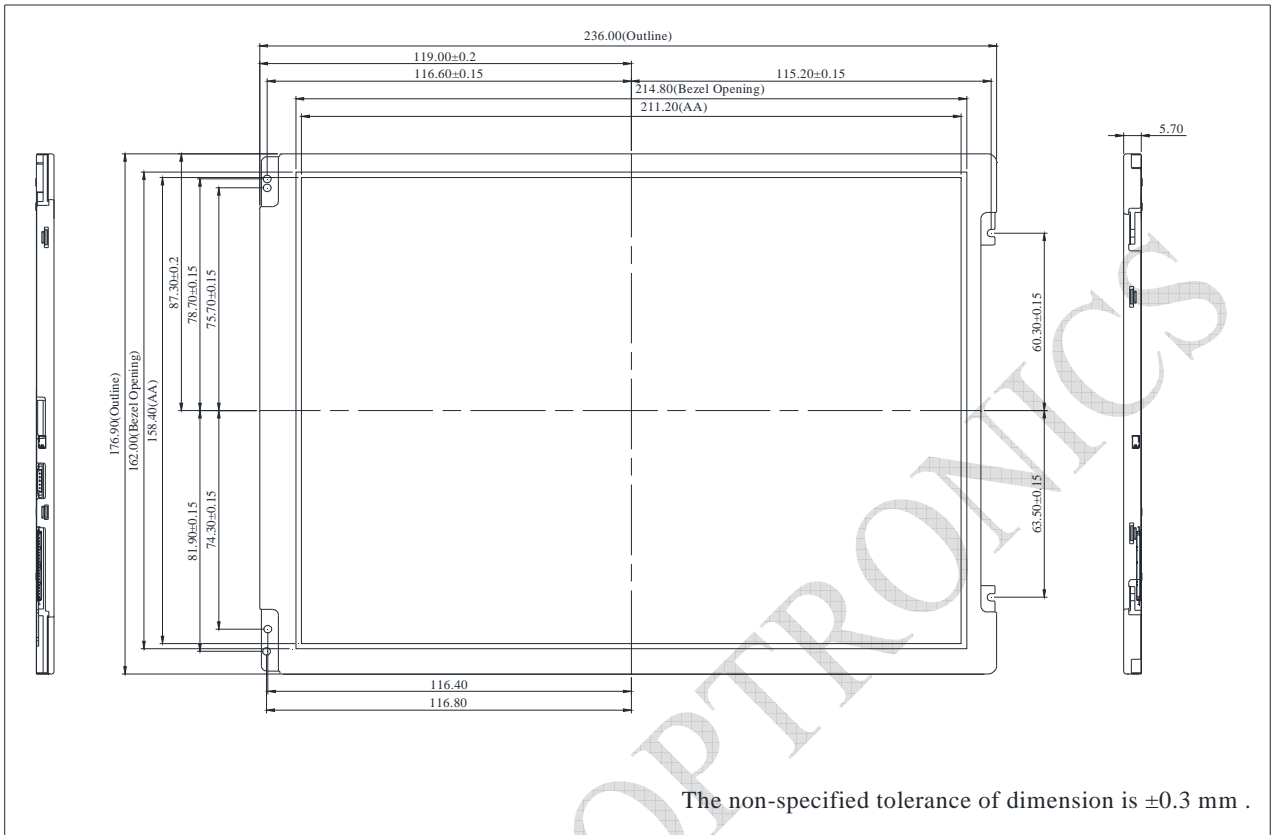
Signal Connector Type

Item	Description
Type/Part Number	MSB24013P20HA (Manufacture by STM)
Mating Receptacle / Type (Reference)	P24013P20 or compatible

Signal Connector Pin Assignment

Pin No.	Symbol	Description
1	VDD	Power Supply, 3.3V (typical)
2	VDD	Power Supply, 3.3V (typical)
3	VSS	Ground
4	REV	Reverse Scan selection {High:2.5(min), 3.3(typ),3.6(max); Low: 0.5(max)}
5	Rin1-	-LVDS differential data input (R0-R5,G0)
6	Rin1+	+LVDS differential data input (R0-R5,G0)
7	VSS	Ground
8	Rin2-	-LVDS differential data input (G1-G5,B0-B1)
9	Rin2+	+LVDS differential data input (G1-G5,B0-B1)
10	VSS	Ground
11	Rin3-	-LVDS differential data input (B2-B5,HS,VS,DE)
12	Rin3+	+LVDS differential data input (B2-B5,HS,VS,DE)
13	VSS	Ground
14	ClkIN-	-LVDS differential clock input
15	ClkIN+	+LVDS differential clock input
16	GND	Ground
17	Rin4-	-LVDS differential data input (R6-R7,G6-G7,B6-B7)
18	Rin4+	+LVDS differential data input (R6-R7,G6-G7,B6-B7)
19	SEL68	6/8 bits LVDS data input selection(H:8bits L/NC:6bits)
20	Bist	Internal use

Contour Drawing





CN2	
PIN NO	SYMBOL
1	VCC12V
2	GND
3	ON/OFF
4	Dimming
5	NC

CN1	
PIN NO	SYMBOL
1	VDD
2	VDD
3	VSS
4	REV
5	Rin1-
6	Rin1+
7	VSS
8	Rin2-
9	Rin2+
10	VSS
11	Rin3-
12	Rin3+
13	VSS
14	ClkIN-
15	ClkIN+
16	GND
17	Rin4-
18	Rin4+
19	SEL68
20	Bist

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

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Absolute Maximum Ratings

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

Electrical Characteristics

Input power specifications are as follows.

Table 1 Power Consumption

Item	Symbol	Min	Typ	Max	Units
LCD Drive Voltage (Logic)	VDD	3.0	3.3	3.6	V
VDD Current	Black Pattern IDD	-	TBD	(0.25)	A
VDD Power Consumption	Black Pattern PDD	-	-	(0.84)	W
Rush Current	Irush	-	-	1.5	A
Allowable Logic/LCD Drive Ripple Voltage	VDDrp	-	-	(200)	mV