



RAYSTAR

RAYSTAR Optronics, Inc.  
曜凌光電股份有限公司



# 曜凌光電股份有限公司 Raystar Optronics, Inc.

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## RX2402A

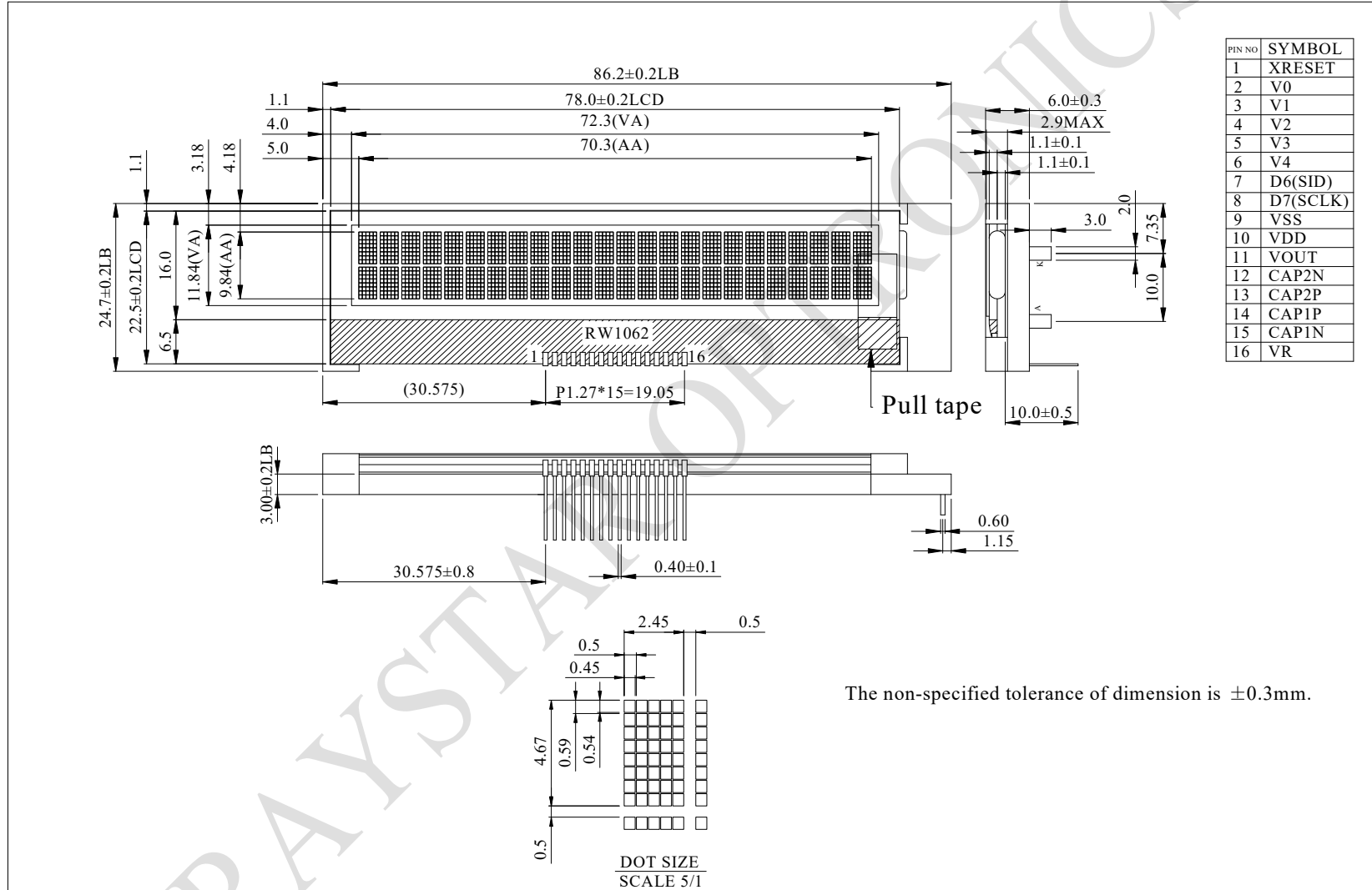
### General Specification

- Module dimension: 86.2 x 24.7 x 6.0 mm
- View area: 72.3 x 11.84 mm
- Active area: 70.3 x 9.84 mm
- Number of Characters: 24 characters x 2 Lines
- Dot size: 0.45 x 0.54 mm
- Dot pitch: 0.50x 0.59 mm
- Character size: 2.45 x 4.67 mm
- Character pitch: 2.95 x 5.17 mm
- Duty: 1/17DUTY,1/5BIAS
- Backlight Type: LED
- IC: RW1062
- Interface: I2C

## Interface Pin Function

Pin No.	Symbol	Level	Description
1	XRESET		Reset pin, Initialized to Low
2~6	V0~V4		Bias voltage level for LCD driving
7	D6(SID)		Serial input data
8	D7(SCLK)		Serial clock
9	VSS		GND
10	VDD	3.0/5.0	Power supply
11	VOUT		Voltage converter output voltage
12	CAP2N		External Capacitance input, To use the voltage converter (2 times/ 3times), these pins must be connected to the external capacitance.
13	CAP2P		
14	CAP1P		
15	CAP1N		
16	VR		Reference voltage input to generate V0

# Contour Drawing



## Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	$T_{OP}$	-20	—	+70	°C
Storage Temperature	$T_{ST}$	-30	—	+80	°C
Input Voltage	$V_{IN}$	-0.3	—	$V_{DD}+0.3$	V
Supply Voltage For Logic	$V_{DD}-V_{SS}$	0.3	—	5.5	V
Supply Voltage For LCD	$V_{LCD}$	-0.3	—	7.0	V

## Electrical Characteristics

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage For Logic	$V_{DD}-V_{SS}$	—	—	3.0/5.0	—	V
Supply Voltage For LCD	$V_{LCD}$	$T_a=-20^{\circ}C$	—	—	—	V
		$T_a=25^{\circ}C$	4.4	4.5	4.6	V
		$T_a=70^{\circ}C$	—	—	—	V
Input High Volt.	$V_{IH}$	—	0.7 $V_{DD}$	—	$V_{DD}$	V
Input Low Volt.	$V_{IL}$	—	-0.3	—	0.6	V
Output High Volt.	$V_{OH}$	—	0.75 $V_{DD}$	—	—	V
Output Low Volt.	$V_{OL}$	—	—	—	0.2 $V_{DD}$	V
Supply Current(No include LED Backlight)	IDD	—	—	0.92/2.01	—	mA