



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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## RG19264B

### General Specification

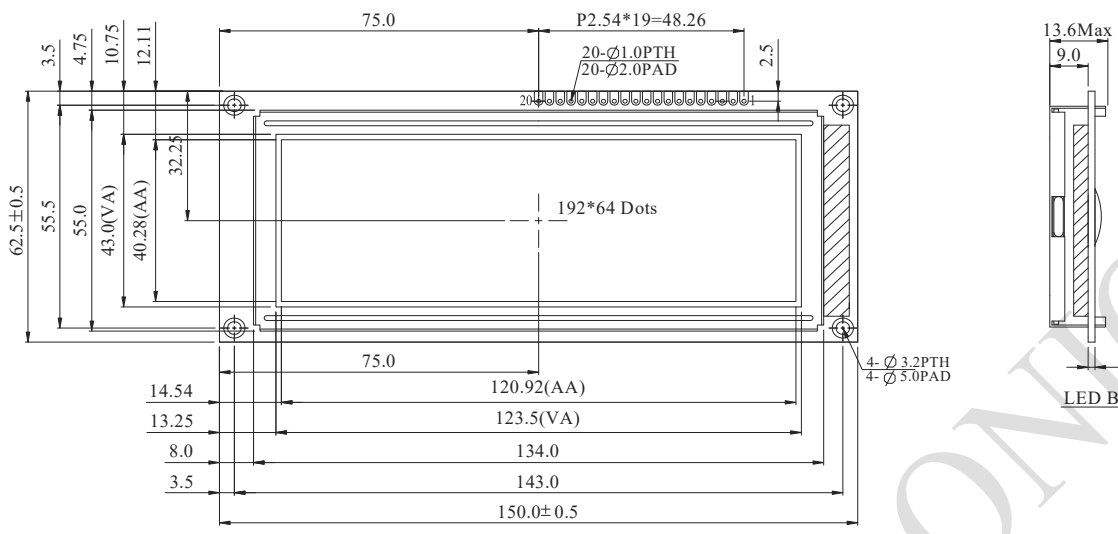
The Features is described as follow:

- Module dimension: 150.0 x 62.5 x 13.6 (max.) mm
- View area: 123.5 x 43.0 mm
- Active area: 120.92 x 40.28 mm
- Number of dots: 192 x 64
- Dot size: 0.59 x 0.59 mm
- Dot pitch: 0.63 x 0.63 mm
- Duty: 1/64, 1/9 Bias
- Backlight Type: LED
- IC: NT7107 ,NT7108
- Interface:68 series

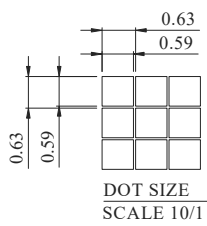
## Interface Pin Function

Pin No.	Symbol	Level	Description
1	V <sub>SS</sub>	0V	Ground
2	V <sub>DD</sub>	5.0V	Supply voltage for logic
3	V <sub>O</sub>	—	Operating voltage for LCD
4	RS	H/L	H: DATA, L: Instruction code
5	R/W	H/L	H: Read (Module --> MPU) L: Write(MPU --> Module)
6	E	H	Enable signal
7	DB0	H/L	Data bus line
8	DB1	H/L	Data bus line
9	DB2	H/L	Data bus line
10	DB3	H/L	Data bus line
11	DB4	H/L	Data bus line
12	DB5	H/L	Data bus line
13	DB6	H/L	Data bus line
14	DB7	H/L	Data bus line
15	/CS1	L	Select Column 1~ Column 64
16	/RST	L	Reset signal
17	/CS2	L	Select Column 65~ Column 128
18	/CS3	L	Select Column 129~ Column 192
19	VEE	—	Negative Voltage Output
20	A	—	Power supply for LED +

# Contour Drawing



PIN NO.	SYMBOL
1	Vss
2	Vdd
3	Vo
4	RS
5	R/W
6	E
7	DB0
8	DB1
9	DB2
10	DB3
11	DB4
12	DB5
13	DB6
14	DB7
15	/CS1
16	/RST
17	/CS2
18	/CS3
19	VEE
20	A



The non-specified tolerance of dimension is  $\pm 0.3$ mm.

## Absolute Maximum Ratings

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

## Electrical Characteristics

ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Supply Voltage For Logic	$V_{DD-VSS}$	—	4.5	5.0	5.5	V
Supply Voltage For LCD	$V_{DD-V_O}$	$T_a=-20^{\circ}\text{C}$	—	—	—	V
		$T_a=25^{\circ}\text{C}$	12.3	12.4	12.5	V
		$T_a=70^{\circ}\text{C}$	—	—	—	V
Input High Volt.	$V_{IH}$	—	$0.7 V_{DD}$	—	$V_{DD}$	V
Input Low Volt.	$V_{IL}$	—	0	—	0.8	V
Output High Volt.	$V_{OH}$	—	2.4	—	—	V
Output Low Volt.	$V_{OL}$	—	—	—	0.4	V
Supply Current	$I_{DD}$	$V_{DD}=5.0\text{V}$	—	5.9	—	mA

\* Note: The VOP of best contrast adjust via VR resistor