



RAYSTAR

RAYSTAR Optronics, Inc.
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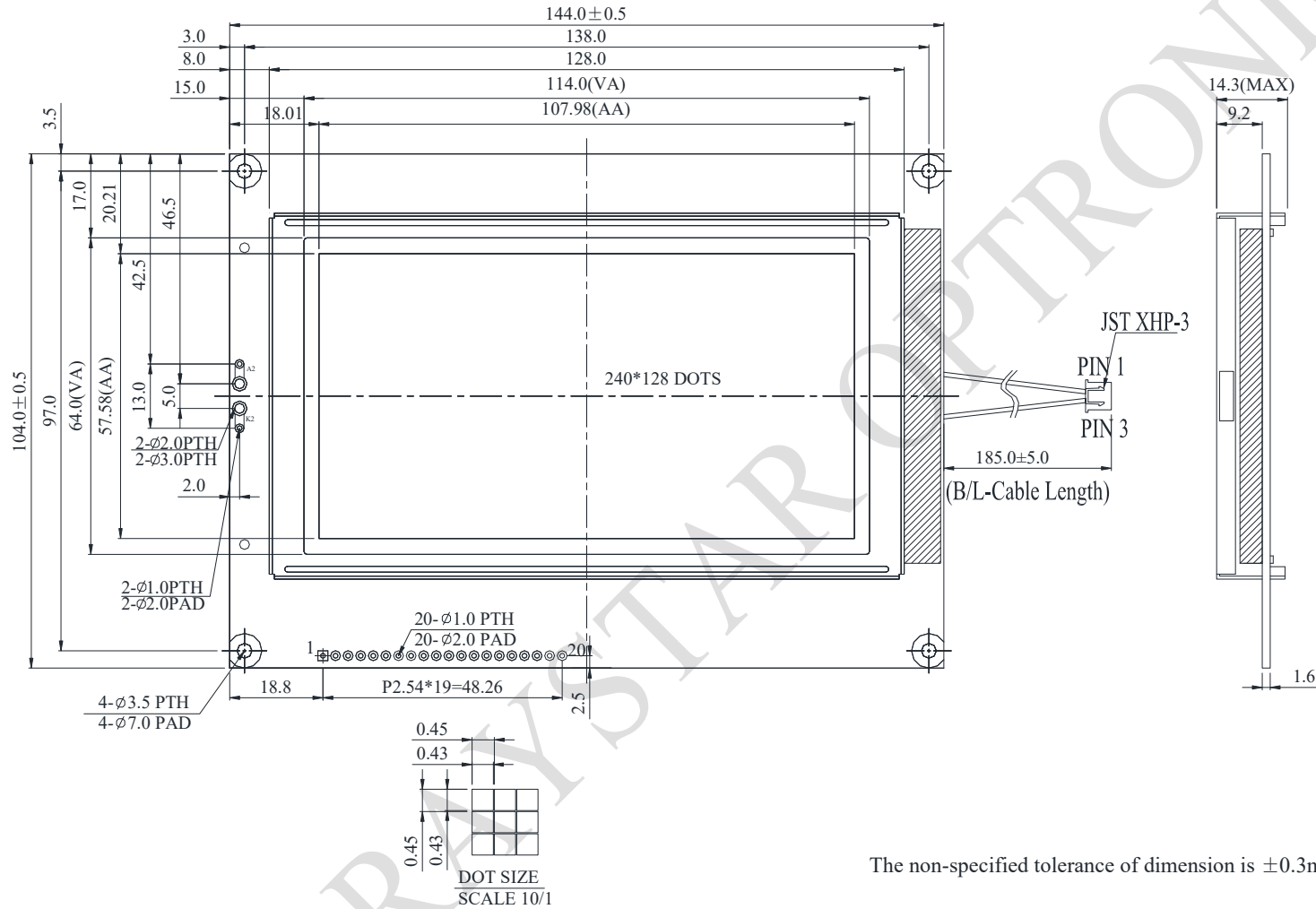
General Specification

- Module dimension: 144.0×104.0×14.3 (max.) mm
- View area: 114.0×64.0 mm
- Active area: 107.98×57.58 mm
- Number of dots: 240×128
- Dot size: 0.43×0.43 mm
- Dot pitch: 0.45×0.45 mm
- Duty: 1/128
- View direction: 6 o'clock
- Backlight Type: LED
- IC:RA6963
- Interface:80 series

Interface Pin Function

Pin No.	Symbol	Level	Description
1	Vee	—	Negative Voltage Output
2	Vss	—	GND
3	Vdd	—	Power supply
4	Vo	—	Power supply for LCD driver
5	/WR	L	Data write. Write data into RA6963 when WR = L
6	/RD	L	Data read. Read data from RA6963 when RD = L
7	/CE	L	L : Chip enable
8	C/D	H / L	WR=L , C/D=H : Command Write C/D=L: Data write RD=L , C/D=H : Status Read C/D=L: Data read
9	RST	—	Display Data signal
10	DB0	H / L	Data bus line
11	DB1	H / L	Data bus line
12	DB2	H / L	Data bus line
13	DB3	H / L	Data bus line
14	DB4	H / L	Data bus line
15	DB5	H / L	Data bus line
16	DB6	H / L	Data bus line
17	DB7	H / L	Data bus line
18	FS	—	Pins for selection of font; H : 6 * 8 , L : 8 * 8
19	NC	—	No Connection
20	NC	—	No Connection

Contour Drawing



PIN NO.	SYMBOL
1	V _{ee}
2	VSS
3	VDD
4	VO
5	WR
6	RD
7	CE
8	C/D
9	RST
10	DB0
11	DB1
12	DB2
13	DB3
14	DB4
15	DB5
16	DB6
17	DB7
18	FS
19	NC
20	NC

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

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	—	+7.0	V

Electrical Characteristics

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage For Logic	V _{DD} -V _{SS}	—	4.5	5.0	5.5	V
Supply Voltage For LCD *Note	V _{DD} -V ₀	T _a =-20°C	—	—	21.7	V
		T _a =25°C	18.9	19.5	20.1	V
		T _a =70°C	17.6	—	—	V
Input High Volt.	V _{IH}	—	0.8V _{DD}	—	V _{DD}	V
Input Low Volt.	V _{IL}	—	0	—	0.15 V _{DD}	V
Output High Volt.	V _{OH}	—	V _{DD} -0.3	—	V _{DD}	V
Output Low Volt.	V _{OL}	—	0	—	0.3	V
Supply Current	I _{DD}	—	45	55	60	mA