LCD / LCM SPECIFICATION

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.
T: +886-4-2565-0761 | F: +886-4-2565-0760
salescontact@raystar-optronics.com | www.raystar-optronics.com

RX2004C

General Specification

- Module dimension: 68.3 x 36.4 x 6.0mm
- View area: 60.5 x 22.18 mm
- Active area: 58.5 x 20.18 mm
- Dot size: 0.45x 0.54 mm
- Dot pitch: 0.50 x 0.59 mm
- Character size: 2.45 x 4.67 mm
- Character pitch: 2.95 x 5.17 mm
- Duty: 1/33DUTY, 1/6BIAS
- Backlight Type: LED
- IC: IST3602
- Interface: I2C

RAYSTAR OPTRONICS

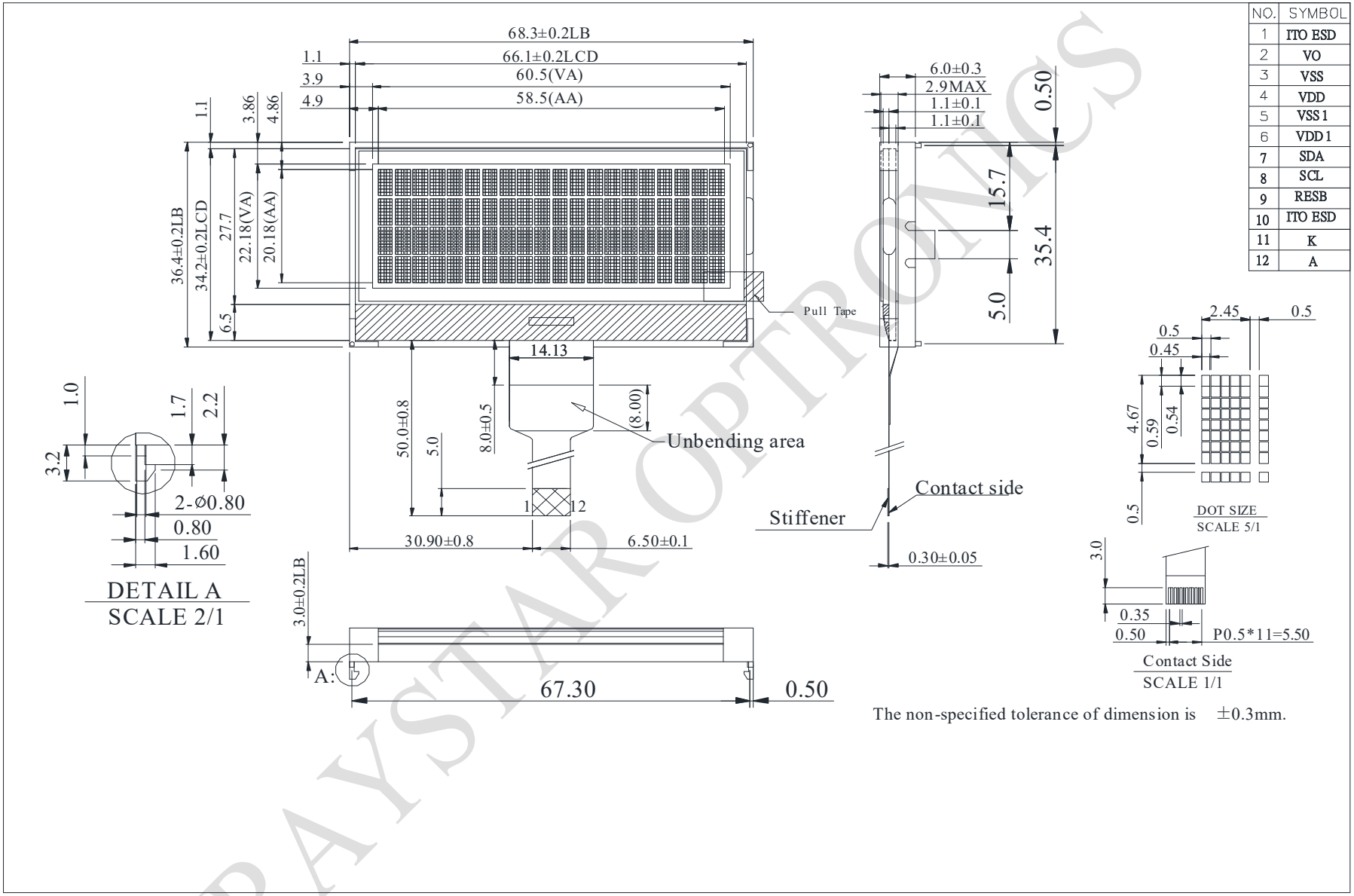
Interface Pin Function

Pin	Symbol	Function Description
1	ITO ESD	Ground
2	V0	LCD Power Supply
3	VSS	Ground(VSS2&VSS3)
4	VDD	Power Supply(VDD2&VDD3)
5	VSS1	Ground(VSS1)
6	VDD1	Power Supply(VDD1)
7	SDA	Serial input data
8	SCL	Serial input clock
9	RESB	Hardware Reset input pin
10	ITO ESD	Ground
11	K	LED-
12	A	LED+

RAYSTAR OPTRONICS

Contour Drawing

RAYSTAR OPTRONICS



NO.	SYMBOL
1	ITO ESD
2	VO
3	VSS
4	VDD
5	VSS1
6	VDD1
7	SDA
8	SCL
9	RESB
10	ITO ESD
11	K
12	A

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

RAYSTAR OPTRONICS

Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	TOP	-20	—	+70	℃
Storage Temperature	TST	-30	—	+80	℃
Input Voltage	VIN	-0.3	—	V_{DD}+0.3	V
Power Supply Voltage	V_{DD}	-0.3	—	4.0	V
LCD Driver Voltage	VLCD	-0.3	—	18.0	V

Electrical Characteristics

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage For Logic	V_{DD}	—	2.7	3.0	3.3	V
Supply Voltage For LCD	V_O-V_{SS}	Ta=-20℃	—	—	—	V
		Ta=25℃	7.6	7.8	8.0	V
		Ta=70℃	—	—	—	V
Input High Volt.	V_{IH}	—	0.8 V_{DDIO}	—	V_{DD}	V
Input Low Volt.	V_{IL}	—	V_{SS}	—	0.2 V_{DD}	V
Output High Volt.	V_{OH}	—	0.8 V_{DDIO}	—	V_{DD}	V
Output Low Volt.	V_{OL}	—	—	—	0.2 V_{DD}	V
Supply LCM current	IDD	VDD=3.0V	—	0.5	—	mA

RAYSTAR OPTRONICS