



RAYSTAR

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RC2002AR

General Specification

The features is described as follow:

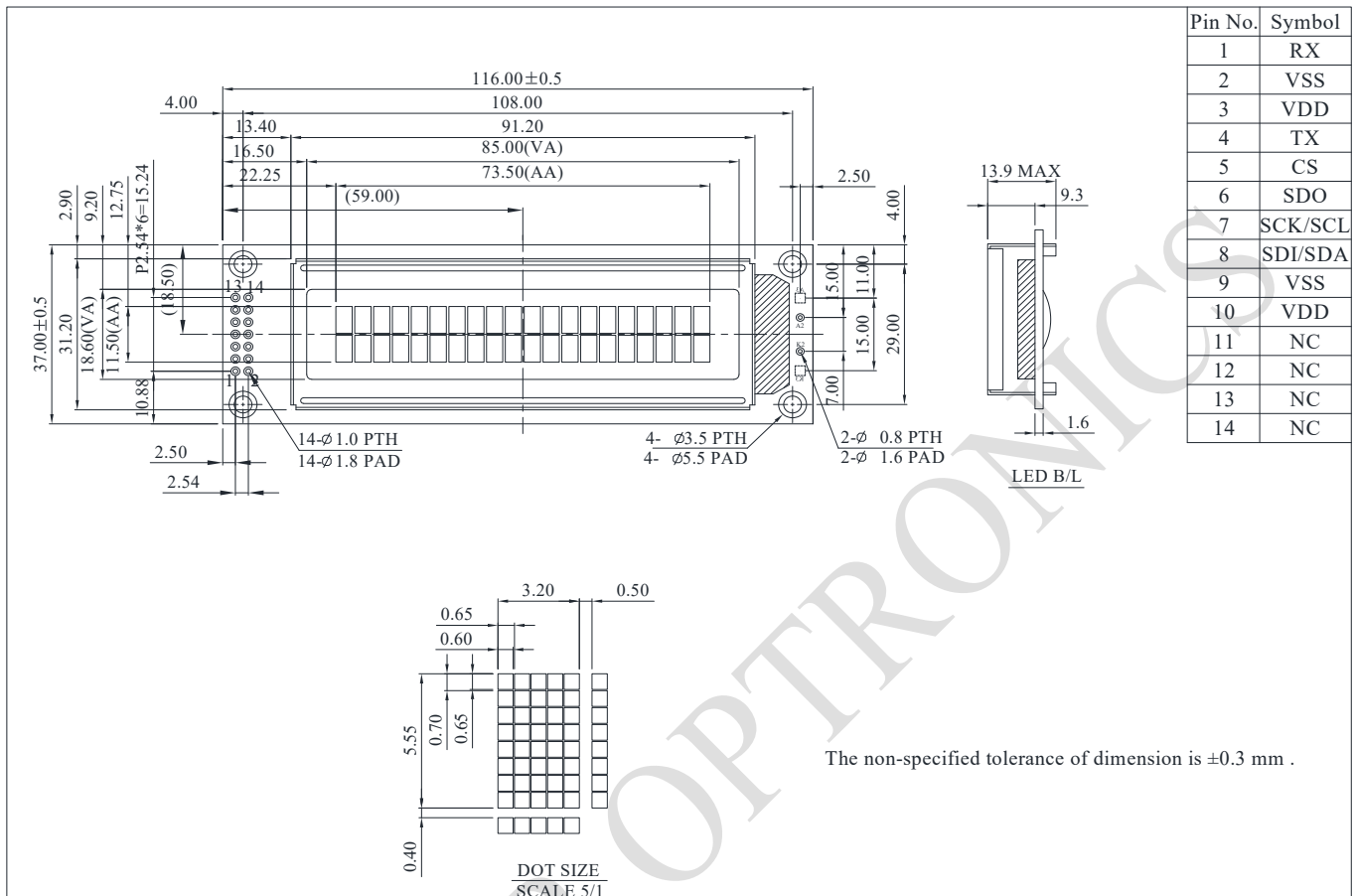
- Module Dimension: 116.0 x 37.0 x 13.9 (Max.) mm
- View Area: 85.0 x 18.6 mm
- Active Area: 73.5x 11.5 mm
- Number of Characters: 20 characters x 2 Lines
- Dot Size: 0.60 x 0.65 mm
- Dot Pitch: 0.65 x 0.70 mm
- Character Size: 3.20 x 5.55 mm
- Character Pitch: 3.70 x 5.95 mm
- Duty: 1/16
- Backlight Type: LED
- IC:ST7066
- Interface: UART

Interface Pin Function

CON1

Pin No.	Symbol	Description
1	RX	UART: serial data input (full duplex communication)
2	VSS	Ground
3	VDD	Supply Voltage
4	TX	UART: serial data output
5	CS	SPI: chip select
6	SDO	SPI: serial data output
7	SCK/SCL	SPI: serial clock I2C: serial clock
8	SDI/SDA	SPI: serial data input I2C: serial data input/output
9	VSS	Ground
10	VDD	Supply Voltage
11-14	NC	No connection

Contour Drawing



Pin No.	Symbol
1	RX
2	VSS
3	VDD
4	TX
5	CS
6	SDO
7	SCK/SCL
8	SDI/SDA
9	VSS
10	VDD
11	NC
12	NC
13	NC
14	NC

The non-specified tolerance of dimension is ± 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	—	V _{SS} -0.3	—	6.0	V
EEPROM Cell Endurance	—	100K	—	—	E/W
Input Voltage	—	V _{SS} -0.3	—	V _{DD} +0.3	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	V _{DD} -V _O	T _a =25°C	4.2	4.35	4.5	V
Input High Voltage	V _{IH}	—	3.5	—	5.0	V
Input Low Voltage	V _{IL}	—	0	—	1.5	V
Supply Current (Module + Backlight)	I _{DD}	V _{DD} =5.0V	—	—	45	mA