OLED DISPLAY SPECIFICATION

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REX001602G

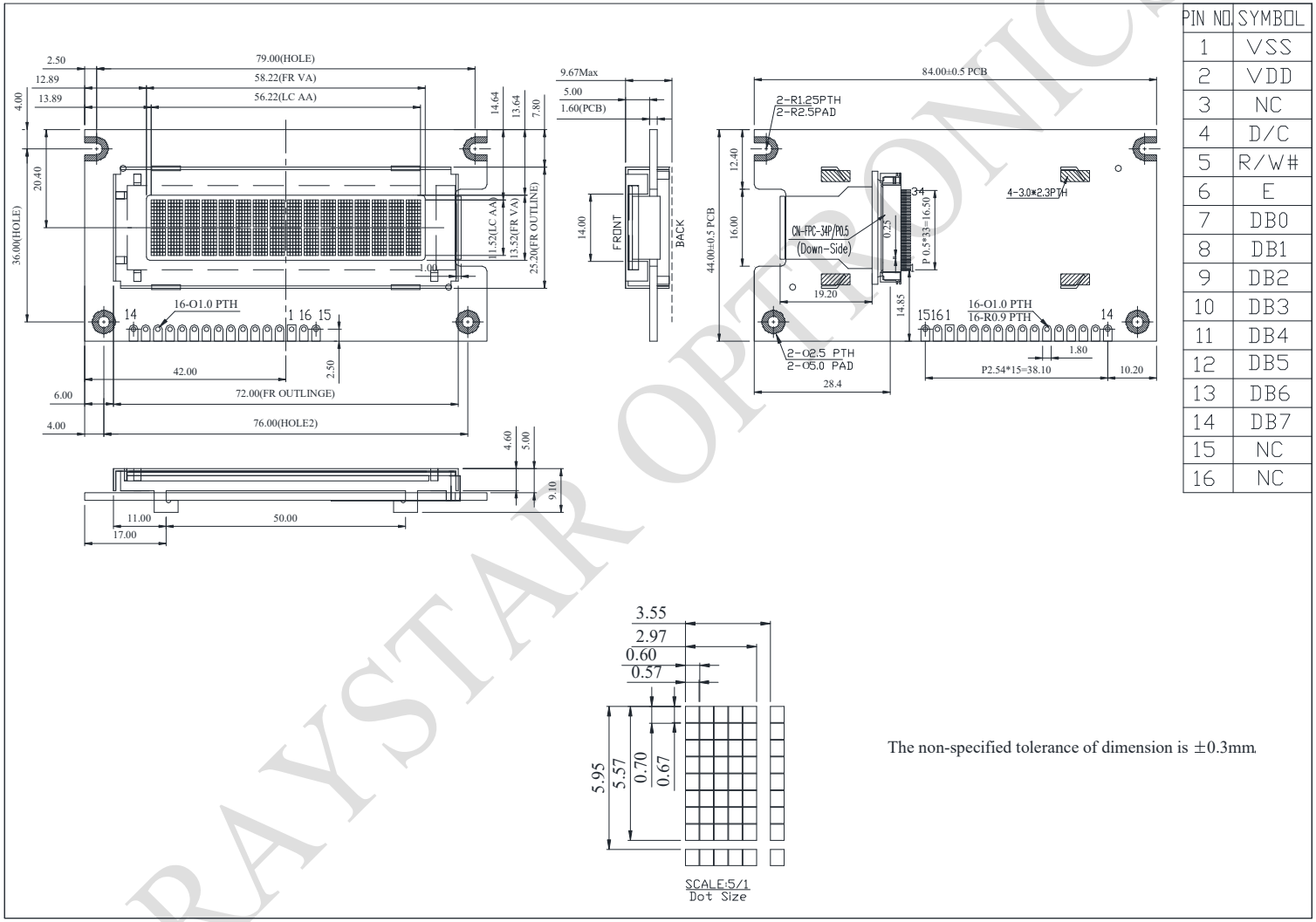
General Specification

- Module dimension: 84.0 x 44.0 x 9.67 mm
- View area：58.22 x 13.52 mm
- Active area: 56.22 x 11.52 mm
- Number of Characters: 16 characters x 2 Lines
- Dot Size: 0.57 x 0.67mm
- Dot Pitch：0.60 x 0.70mm
- Character size: 2.97 x 5.57 mm
- Character pitch: 3.55 x 5.95 mm
- Duty: 1/16
- Panel type: Monochrome
- IC: SSD1311

Interface Pin Function

Pin No.	Symbol	Pin Type	Description
1	VSS	P	Ground pin.
2	VDD	P	Power supply for core logic operation. VDD can be supplied externally or regulated internally. In 5V IO application (internal VDD is enabled), VDD is regulated internally from VDDIO. A capacitor should be connected between VDD and VSS under all circumstances.
3	NC		No connection
4	D/C#	I	This pin is Data/Command control pin connecting to the MCU. When the pin is pulled HIGH, the data at D[7:0] will be interpreted as data. When the pin is pulled LOW, the data at D[7:0] will be transferred to a command register.
5	R/W#	I	This pin is read / write control input pin connecting to the MCU interface. When 6800 interface mode is selected, this pin will be used as Read/Write (R/W#) selection input. Read mode will be carried out when this pin is pulled HIGH and write mode when LOW.
6	E	I	This pin is MCU interface input. When 6800 interface mode is selected, this pin will be used as the Enable (E) signal. Read/write operation is initiated when this pin is pulled HIGH and the chip is selected.
7~14	DB0~ DB7	I/O	These pins are bi-directional data bus connecting to the MCU data bus. Unused pins are recommended to tie LOW.
15	NC		No connection
16	NC		No connection

Counter Drawing



PIN NO.	SYMBOL
1	VSS
2	VDD
3	NC
4	D/C
5	R/W#
6	E
7	DB0
8	DB1
9	DB2
10	DB3
11	DB4
12	DB5
13	DB6
14	DB7
15	NC
16	NC

Absolute Maximum Ratings

Item	Symbol	Min	Max	Unit
Input Voltage	V_I	-0.3	VDD	V
Supply Voltage For Logic	VDD-V_{SS}	-0.3	3.6	V
Operating Temperature	T_{OP}	-40	+80	℃
Storage Temperature	T_{ST}	-40	+80	℃

Electrical Characteristics

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage For Logic	VDD	—	2.8	3.0	3.3	V
Input High Volt.	VIH	—	0.8 VDD	—	—	V
Input Low Volt.	VIL	—	—	—	0.2VDD	V
Output High Volt.	VOH	IOH=-0.5mA	0.9 VDD	—	—	V
Output Low Volt.	VOL	IOL=0.5mA	—	—	0.1 VDD	V
50% Check Board Operating Current	IDD	VDD=3.0V	43	50	52	mA