LCD / LCM SPECIFICATION

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RC1602G

General Specification

The features is described as follow:

- Module Dimension: 85.0 x 25.2 x 13.5 (Max.) mm
- View Area: 66.0 x 16.0 mm
- Active Area: 56.20x 11.5 mm
- Number of Characters: 16 Characters x 2 Lines
- Dot Size: 0.55 x 0.65 mm
- Dot Pitch: 0.60 x 0.70 mm
- Character Size: 2.95 x 5.55 mm
- Character Pitch: 3.55 x 5.95 mm
- Duty: 1/16
- Backlight Type: LED
- IC:ST7066U
- Interface:68 series

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Interface Pin Function

Pin No.	Symbol	Level	Description
1	DB7	H/L	Data bus line
2	DB6	H/L	Data bus line
3	DB5	H/L	Data bus line
4	DB4	H/L	Data bus line
5	DB3	H/L	Data bus line
6	DB2	H/L	Data bus line
7	DB1	H/L	Data bus line
8	DB0	H/L	Data bus line
9	E	H,H→L	Chip enable signal
10	R/W	H/L	H: Read (Module --> MPU) L: Write(MPU --> Module)
11	RS	H/L	H: DATA, L: Instruction code
12	VO	(Variable)	Operating voltage for LCD
13	V_{SS}	0V	Ground
14	V_{DD}	5.0V	Supply Voltage for logic

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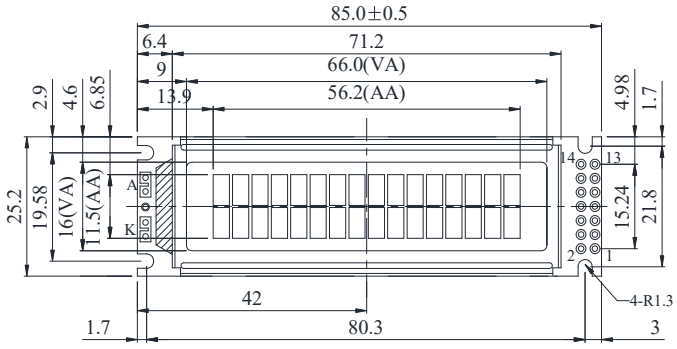
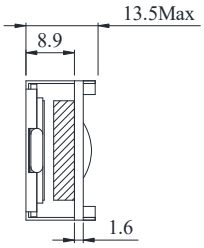
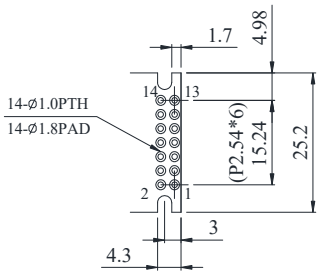
Contour Drawing

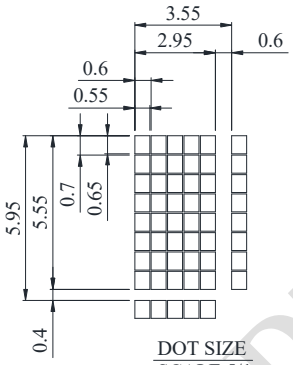




PIN NO.	SYMBOL
1	DB7
2	DB6
3	DB5
4	DB4
5	DB3
6	DB2
7	DB1
8	DB0
9	E
10	R/W
11	RS
12	VO
13	VSS
14	VDD



PIN DETAIL



DOT SIZE
SCALE 5/1

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

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Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	T_{OP}	-20	—	+70	℃
Storage Temperature	T_{ST}	-30	—	+80	℃
Input Voltage	V_I	V_{SS}	—	V_{DD}	V
Supply Voltage For Logic	V_{DD}-V_{SS}	-0.3	—	7	V
Supply Voltage For LCD	V_{DD}-V_o	-0.3	—	13	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_0	Ta=-20℃	—	—	5.2	V
		Ta=25℃	3.6	3.7	3.8	V
		Ta=70℃	3.2	—	—	V
Input High Volt	V_{IH}	—	0.7 V_{DD}	—	V_{DD}	V
Input Low Volt	V_{IL}	—	Vss	—	0.6	V
Output High Volt	V_{OH}	—	3.9	—	V_{DD}	V
Output Low Volt	V_{OL}	—	0	—	0.4	V
Supply Current	I_{DD}	V_{DD}=5.0V	1.0	1.2	1.5	mA

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