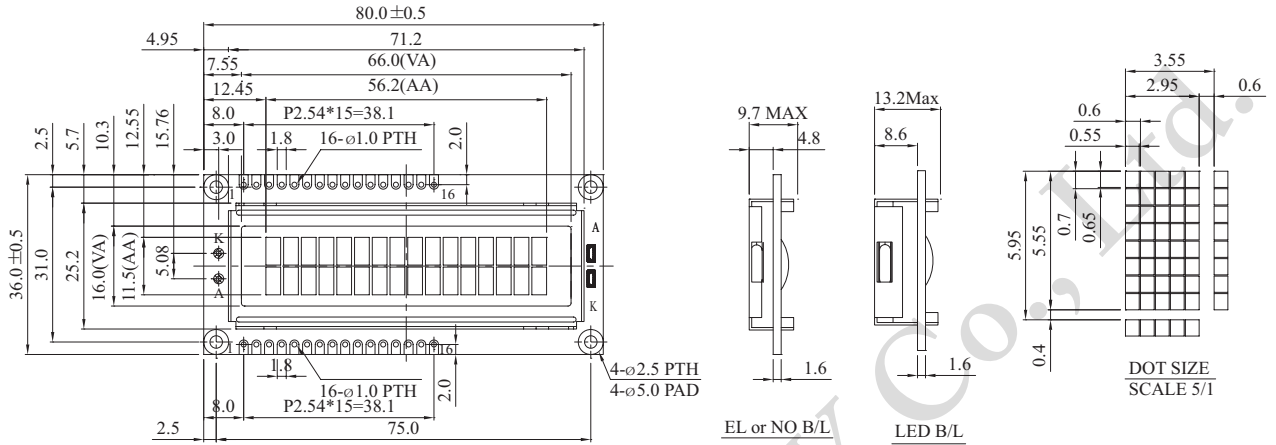


WH1602W Character 16x2

Dimension drawing



Character type

Feature

1. 5x8 dots includes cursor
2. Built-in controller ST7066
3. + 5V power supply
4. 1/16 duty cycle

Mechanical Data

Item	Dimension	Unit
Module Dimension	80.0 x 36.0	mm
Viewing Area	66.0 x 16.0	mm
Mounting Hole	75.0 x 31.0	mm
Character Size	2.95 x 5.55	mm

Pin NO.	Symbol	Description
1	VSS	Ground
2	VDD	Supply Voltage for logic
3	VO	Operating voltage for LCD
4	RS	H: DATA, L: Instruction code
5	R/W	H: Read(MPU→Module) L: Write(MPU→Module)
6	E	Chip enable signal
7	DB0	Data bus line
8	DB1	Data bus line
9	DB2	Data bus line
10	DB3	Data bus line
11	DB4	Data bus line
12	DB5	Data bus line
13	DB6	Data bus line
14	DB7	Data bus line
15	A	LED +
16	K	LED -

Absolute Maximum Rating

Item	Symbol	Standard Value			Unit
		min.	typ.	max.	
Power Supply	VDD-VSS	-0.3	---	7.0	V
Input Voltage	VI	-0.3	---	VDD	V

Note: VSS=0 Volt, VDD=5.0 Volt.

Electronical Characteristics

Item	Symbol	Condition	Standard Value			Unit
			min.	typ.	max.	
Input Voltage	VDD	VDD=+5V	4.5	5.0	5.5	V
Supply Current	IDD	VDD=+5V	1.0	1.2	1.5	mA
Recommended LC Driving Voltage for Normal Temp. Version module	VDD-V0	-20°C	4.9	5.2	5.5	V
		0°C	4.5	4.8	5.1	
		25°C	4.1	4.4	4.7	
		70°C	3.5	4.0	4.1	
LED Forward Voltage	VF	25°C	--	--	140	V
LED Forward Current	IF	25°C	--	--	5.0	mA