LCD / LCM SPECIFICATION



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SPECIFICATION

MODULE NO.: WH1602BU-TMI-JT#

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General Specification

Item	Dimension	Unit
Number of Characters	16 characters x 2Lines	—
Module dimension	80.0 x 36.0 x 13.5 (MAX)	mm
View area	66.0 x 16.0	mm
Active area	56.20 x 11.5	mm
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	
Controller IC	ST7066	
Interface	USB	

Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	T_{OP}	-20	—	+70	℃
Storage Temperature	T_{ST}	-30	—	+80	℃
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	Ta=25℃	3.6	3.7	3.8	V
Input High Voltage	V_{IH}	—	3.5	—	5.0	V
Input Low Voltage	V_{IL}	—	0	—	1.5	V
Supply Current (Module + Backlight) *Note	I_{DD}	V_{DD}=5.0V	—	—	67.5	mA

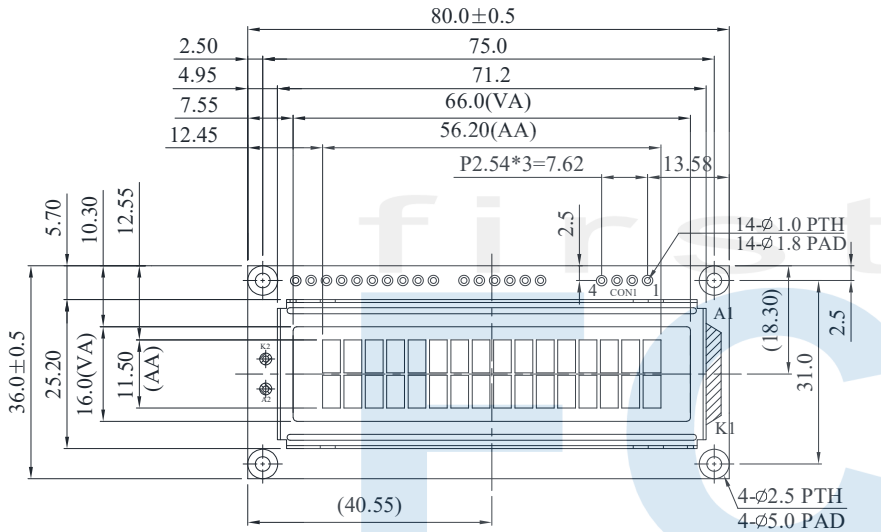
Interface Pin Function

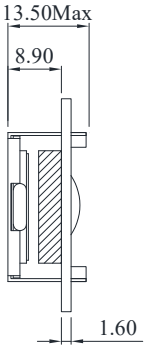
CON1

Pin No.	Symbol	Description
1	VBUS(VDD)	Supply Voltage
2	D-	Data -
3	D+	Data +
4	VSS	Ground

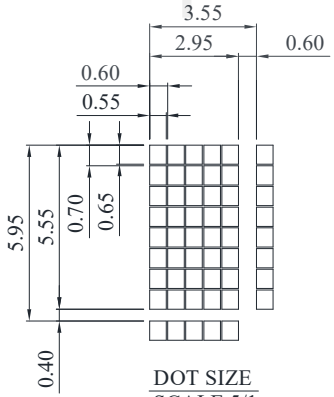
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Contour Drawing





LED B/L



DOT SIZE
SCALE 5/1

CON1

Pin No.	Symbol
1	VBUS
2	D-
3	D+
4	VSS

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

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