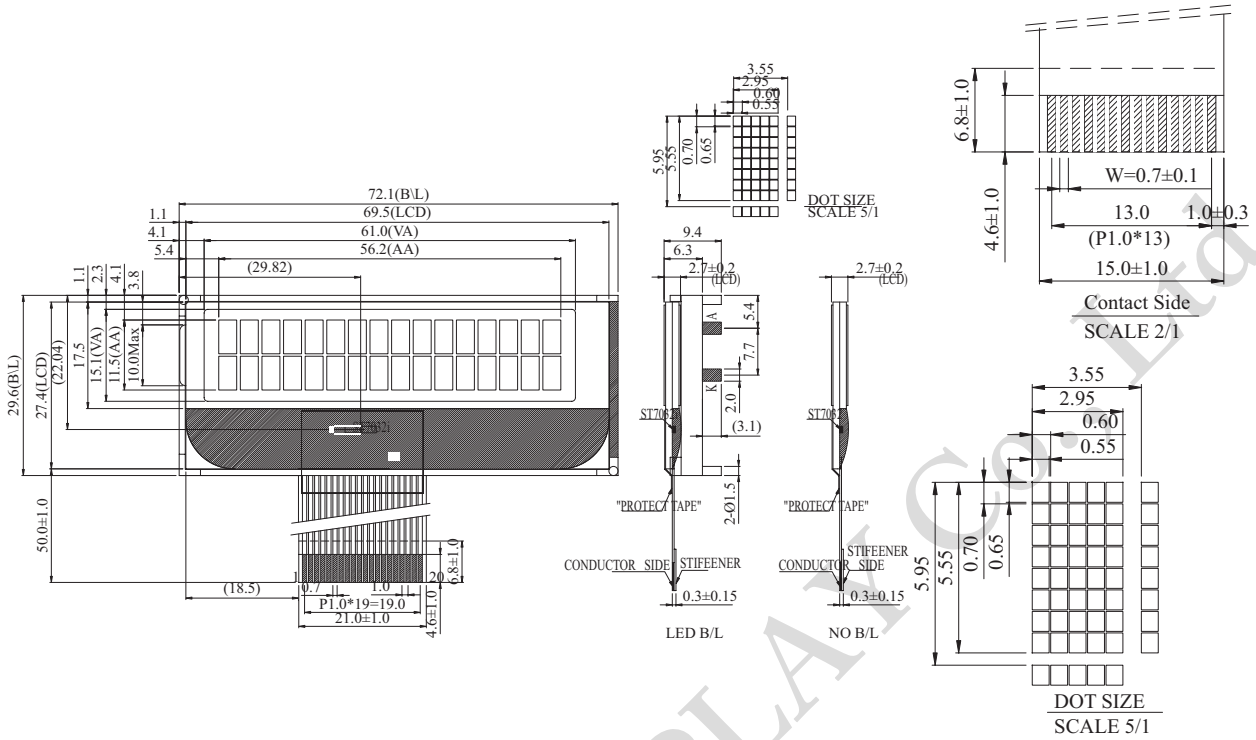




# WO1602F Character 16x2 dots

## Dimension drawing



### Feature

1. Built-in controller (ST7032)
2. 1/16 duty ,1/5 bias
3. +5V power supply

Pin No.	Symbol	Description															
1	RS	Select registers. 0: Instruction register (for write) Busy flag & address counter (for read) 1: Data register (for write and read)															
2	R/W	Select read or write (In parallel mode).															
3	E	0: Write 1: Read Starts data read/write. ("E" must connect to "VDD" when serial interface is selected.)															
4	DB0	Data bus line															
5	DB1	Data bus line															
6	DB2	Data bus line															
7	DB3	Data bus line															
8	DB4	Data bus line															
9	DB5	Data bus line															
10	DB6/SCL	Data bus line (In I2C interface DB6 (SCL) is clock input. SDA and SCL must connect to I2C bus (I2C bus is to connect a resistor between SDA/SCL and the power of I2C bus ).															
11	DB7/SDA	Data bus line (In I2C interface DB7 (SDA) is input data. SDA and SCL must connect to I2C bus (I2C bus is to connect a resistor between SDA/SCL and the power of I2C bus ).															
12	V <sub>SS</sub>	Ground															
13	V <sub>DD</sub>	Supply Voltage for logic															
14	V <sub>out</sub>	Operating voltage for LCD															
15	PSB	Interface selection 0:serial mode ( "E" must connect to "VDD" when serial mode is selected.) 1:parallel mode(4/8 bit) In I2C interface PSB must connect to VDD															
16	PSI2B	<table border="1"> <thead> <tr> <th>PSB</th> <th>PSB</th> <th>Interface</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0</td> <td>No use</td> </tr> <tr> <td>0</td> <td>1</td> <td>S14</td> </tr> <tr> <td>1</td> <td>0</td> <td>S12(1°C)</td> </tr> <tr> <td>1</td> <td>1</td> <td>Parallel 68</td> </tr> </tbody> </table>	PSB	PSB	Interface	0	0	No use	0	1	S14	1	0	S12(1°C)	1	1	Parallel 68
PSB	PSB	Interface															
0	0	No use															
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1	0	S12(1°C)															
1	1	Parallel 68															
17	CAP1P	For voltage booster circuit(VDD-VSS)															
18	CAP1N	External capacitor about 0.1u~4.7uf															
19	NC	No connection															
20	NC	No connection															

### Mechanical Data

Item	Standard Value	Unit
Module Dimension	72.1x29.6x9.4	mm
Viewing Area	61.0x15.1	mm
Mounting hote	65.1x22.6	mm
Dot Size	2.95x5.55	mm

Character type

### Absolute Maximum Rating

Item	Symbol	Standard Value			Unit
		min.	typ.	max.	
Power Supply	VDD-VSS	-0.3	---	6.0	V
Input Voltage	VI	---	---	---	V

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

### Electronical Characteristics

Item	Symbol	Condition	Standard Value			Unit
			min.	typ.	max.	
Input Voltage	VDD		4.75	5.0	5.25	V
Supply Current	IDD	VDD=5V	0.5	0.7	1.0	mA
Recommended LC Driving Voltage for Normal Temp. Version module	VDD-VO	-20°C	---	---	---	V
		0°C	---	---	---	
		25°C	4.1	4.5	4.8-	
		50°C	---	---	---	
LED Forward Voltage	VF	25°C	3.4	3.5	3.6	V
LED Forward Current	IF	25°C	---	16	---	V