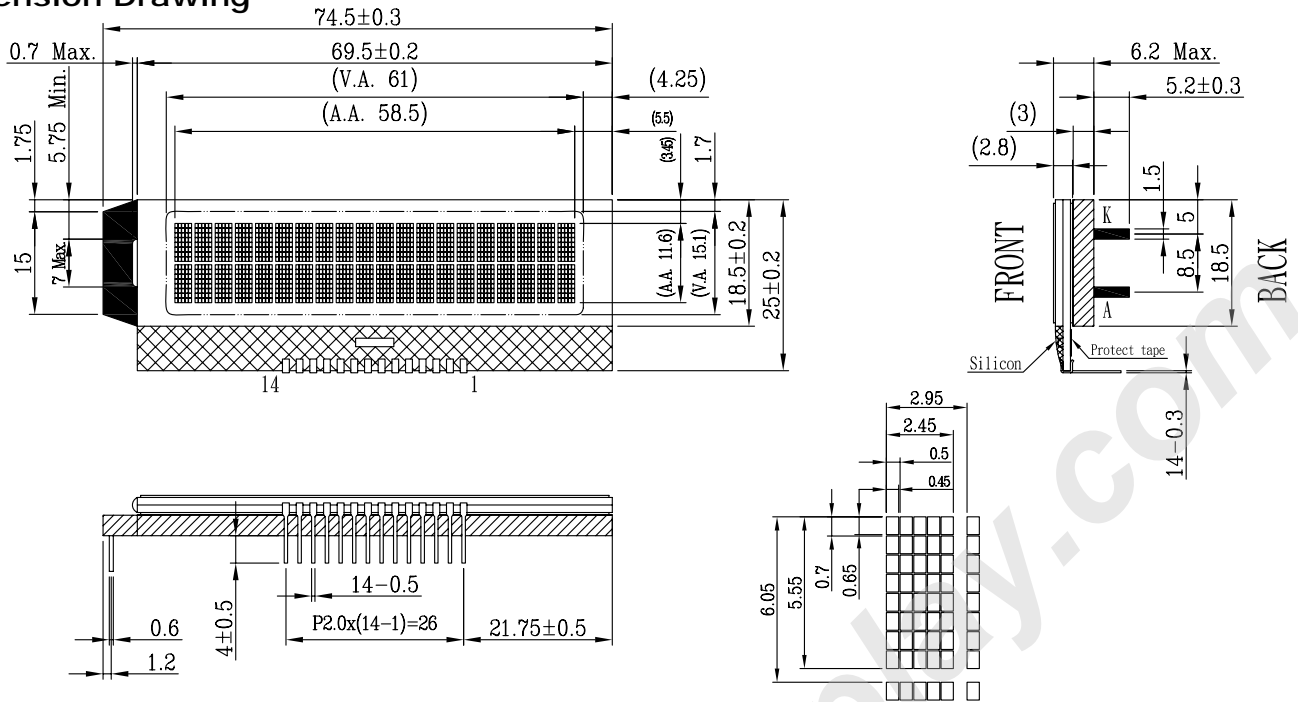


Dimension Drawing



TOLERANCES UNLESS OTHERWISE STATED
 X.X ± 0.20 X.XX ± 0.10 UNIT: mm

Feature:

- 2-line x20 characters display; 5x8 dots with cursor
- Built-in controller NT7605H
- +5V power supply(also available for +3.3V)
- 1/16 Duty cycle
- STN or FSTN Mode
- Match all kind colors of LED back light
- ROHS compliant

Interface Pin Connections

PIN NO.	Symbol	Function
1	VSS	GND
2	VO	Contrast adjustment
3	VDD	Power supply +5V
4	RS	H/L Register select signal
5	R/W	H/L Read/Write signal
6	E	H/L Enable signal
7	DB0	H/L Data bus line
8	DB1	H/L Data bus line
9	DB2	H/L Data bus line
10	DB3	H/L Data bus line
11	DB4	H/L Data bus line
12	DB5	H/L Data bus line
13	DB6	H/L Data bus line
14	DB7	H/L Data bus line

Mechanical Data

Item	Standard	Unit
Module dimension	74.5 x 25.0	mm
Viewing area	61.0 x 15.1	mm
Character size	2.45 x 5.55	mm
Dots size	0.45 x 0.65	mm

Absolute Maximum Rating

Item	Symbol	Standard			Unit
		Min	Typ	Max	
Power supply	VDD-VSS	-0.3	---	7.0	V
Input voltage	VI	-0.3	---	VDD+0.3	

Electronical Characteristics

Item	Symbol	Condition	Standard			Unit
			Min	Typ	Max	
Input voltage	VDD	+5.0V	4.5	5.0	5.5	V
		+3.3V	2.7	3.3	4.5	V
Supply current	I _{DD}	VDD=5V	---	125	250	uA
Recommended LCD driving voltage for normal temp version module	VDD-V0 (VDD=5V)	-20°C	4.9	5.2	5.5	V
		0°C	4.5	4.8	5.1	
		25°C	4.1	4.5	4.8	
		50°C	3.8	5.0	4.4	
70°C	3.5	4.2	5.5			
LED forward voltage	VF	25°C	---	3.0	3.1	V
LED forward current	IF	25°C Edge	---	30	40	mA

Display Character Address Code:

Display position

1 2 3 4 5 6 7 8 9 -- -- -- -- -- 19 20

DDRAM address 00 01 02 -- -- -- -- -- -- -- -- -- 13H
 DDRAM address 40 41 42 -- -- -- -- -- -- -- -- -- 53H