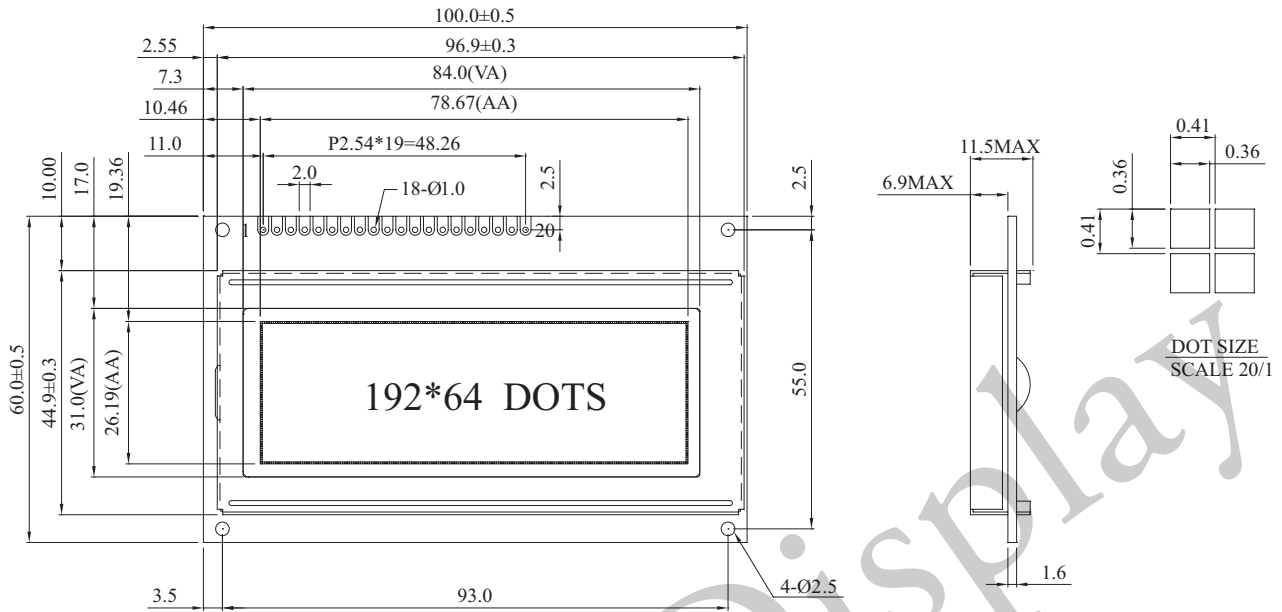


**WG19264F** Graphic 192x64 dots

**Dimension drawing**



Graphic type

**Feature**

1. 192x64 dots includes cursor
2. Built-in controller NT7107
3. + 5V power supply
4. 1/64 duty cycle

**Mechanical Data**

Item	Standard Value	Unit
Module dimension	100.0 x 60.0	mm
Viewing area	84.0 x 31.0	mm
Mounting hole	93.0 x 55.0	mm
Dot Size	0.36 x 0.36	mm
Dot Pitch	0.41 x 0.41	mm

**Absolute Maximum Rating**

Item	Symbol	Standard Value			Unit
		min.	typ.	max.	
Power Supply	VDD-VSS	4.75	5.0	5.25	V
Input Voltage	VI	0	--	VDD	V

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

Pin No.	Symbol	Description
1	DB7	Data bus line
2	DB6	Data bus line
3	DB5	Data bus line
4	DB4	Data bus line
5	DB3	Data bus line
6	DB2	Data bus line
7	DB1	Data bus line
8	DB0	Data bus line
9	E	Enable signal
10	R/W	H: Read (MPU→Module) , L: Write (MPU→Module)
11	RS	H : Data L : Instruction code
12	VOP	Operating voltage for LCD
13	VDD	Supply voltage for logic
14	VSS	Ground
15	/CSB	/CSA=0 /CSB=0 Select U2
		/CSA=0 /CSB=1 Select U3
16	/CSA	/CSA=1 /CSB=0 Select U4
17	Vout	Negative Voltage Output
18	REST	Reset Signal
19	A	LED+
20	K	LED-

**Electronical Characteristics**

Item	Symbol	Condition	Standard Value			Unit
			min.	typ.	max.	
Input Voltage	VDD-VSS	-	4.5	5.0	5.5	V
Supply Current	IDD	VDD=5V	4.9	5.5	6.0	mA
Recommended LC Driving Voltage for Normal Temp. Version module	VDD-VO	-20°C	-	-	-	V
		25°C	7.29	8.0	8.84	
		+70°C	-	-	-	
LED Forward Voltage	VF	25°C	3.9	4.1	4.3	V
LED Forward Current	IF	25°C	112	140	180	mA