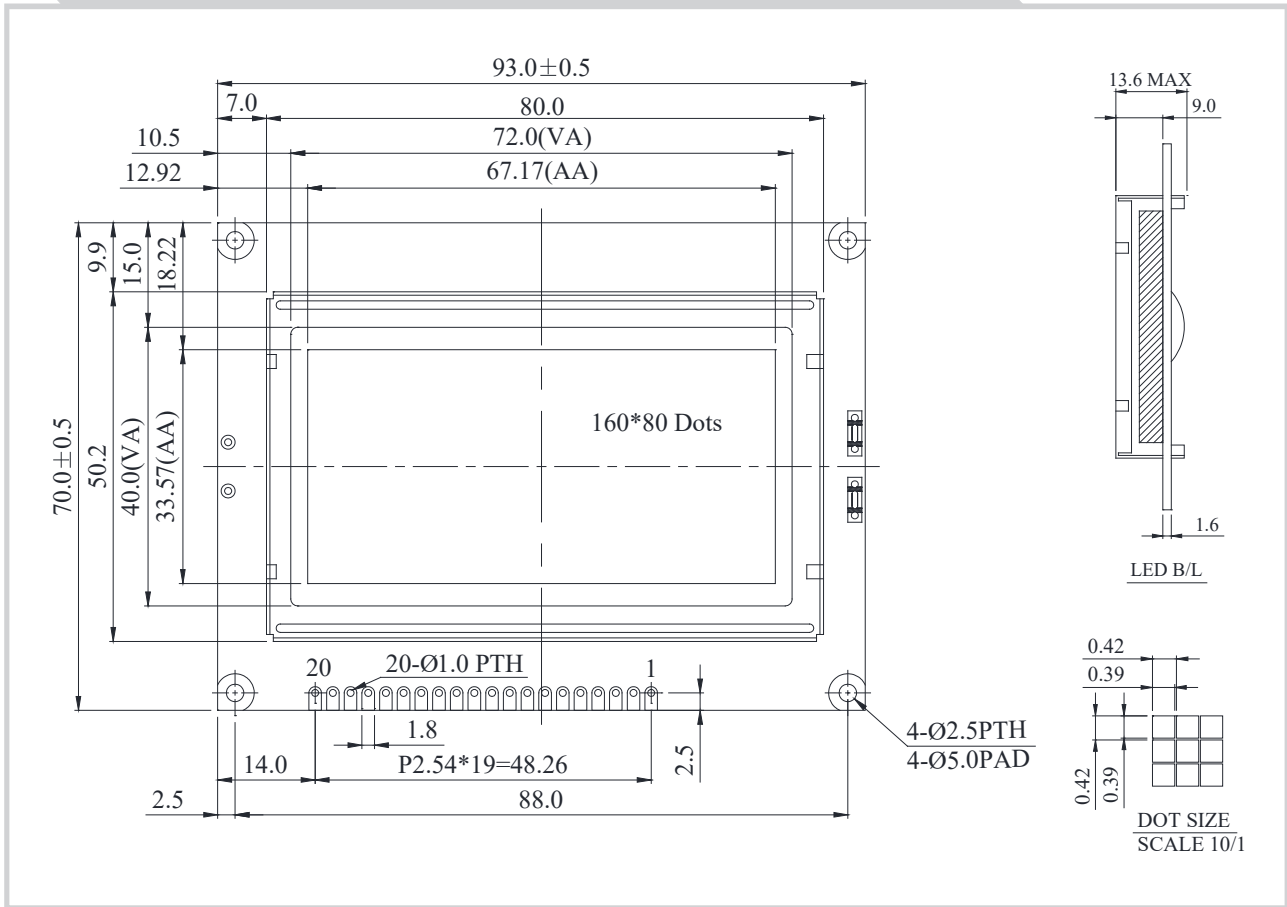


# NTG16080D Graphic 160x80 dots



## Feature

1. 160X80 dots
2. Built-in controller RA6963
3. 3.3V / 5V power supply
4. 1/80 duty cycle
5. N.V. Built-in

Pin No.	Symbol	Description
1	V <sub>SS</sub>	Ground
2	V <sub>DD</sub>	Power supply for logic
3	V <sub>O</sub>	Contrast Adjustment
4	/WR	Data write. Write data into LCD Controller
5	/RD	Data read. Read data from LCD Controller
6	C/D	Data/ Instruction select 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	/CE	Enable signal
16	NC/FS	No connection
17	/RST	Controller reset signal, Active Low
18	V <sub>EE</sub>	Negative Voltage Output
19	A	Power supply for B/L +
20	K	Power supply for B/L -

## Mechanical Data

Item	Standard Value	Unit
Module Dimension	93.0 x 70.0	mm
Viewing Area	72.0 x 40.0	mm
Mounting Hole	88.0 x 65.0	mm
Dot Pitch	0.42 x 0.42	mm
Dot Size	0.39 x 0.39	mm

## Electrical Characteristics

Item	Symbol	Standard Value	Unit
		typ.	
Input Voltage	V <sub>DD</sub>	5.0	V
Recommended LCD Driving Voltage for Normal Temp. Version module @25°C	V <sub>DD-VO</sub>	13.5	V