



RAYSTAR

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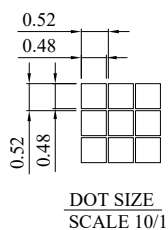
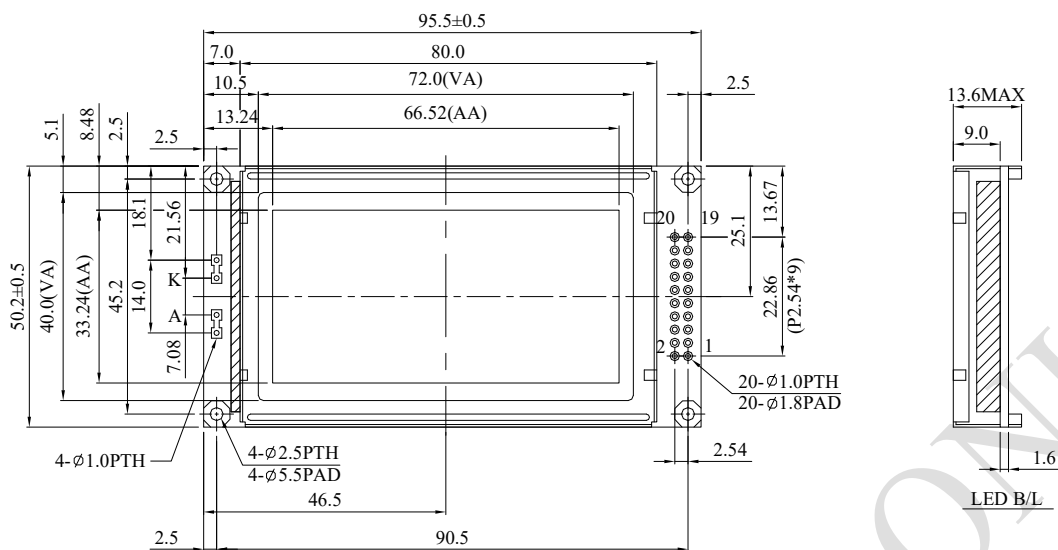
General Specification

- Module dimension: 95.5x 50.2 x 13.6 (max.) mm
- View area: 72.0 x 40.0 mm
- Active area: 66.52 x 33.24 mm
- Number of dots: 128 x 64
- Dot size: 0.48 x 0.48 mm
- Dot pitch: 0.52 x 0.52 mm
- Duty: 1/64
- Backlight Type: LED
- IC: NT7107, NT7108
- Interface: 68 series

Interface Pin Function

Pin No.	Symbol	Level	Description
1	V _{SS}	0V	GND
2	V _{DD}	5.0V	Power Supply
3	V _O	(Variable)	Contrast Adjustment
4	D/I	H/L	Data /Instruction
5	$\overline{R/W}$	H/L	Data Read/Write
6	E	H	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
15	CS1	H	Chip Select for IC1
16	CS2	H	Chip Select for IC2
17	\overline{RST}	L	Reset
18	V _{ee}	—	Negative Voltage output
19	A	—	LED+
20	K	—	LED-

Contour Drawing & Block Diagram



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

PIN NO.	SYMBOL
1	Vss
2	Vdd
3	Vo
4	D/I
5	R/W
6	E
7	DB0
8	DB1
9	DB2
10	DB3
11	DB4
12	DB5
13	DB6
14	DB7
15	CS1
16	CS2
17	$\overline{\text{RST}}$
18	VEE
19	A
20	K

Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	T_{OP}	-20	—	+70	°C
Storage Temperature	T_{ST}	-30	—	+80	°C
Supply Voltage For Logic	$V_{DD}-V_{SS}$	-0.3	—	7.0	V
Driver Supply Voltage	V_{LCD}	$V_{EE}-0.3$	—	$V_{DD}+0.3$	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	$V_{DD}-V_O$	$T_a=-20^{\circ}\text{C}$	—	—	10.6	V
		$T_a=25^{\circ}\text{C}$	8.8	9.1	9.4	V
		$T_a=70^{\circ}\text{C}$	8.4	—	—	V
Input High Volt.	V_{IH}	—	$0.7 V_{DD}$	—	V_{DD}	V
Input Low Volt.	V_{IL}	—	0	—	0.8	V
Output High Volt.	V_{OH}	—	2.4	—	—	V
Output Low Volt.	V_{OL}	—	—	—	0.4	V
Supply Current	I_{DD}	$V_{DD}=5.0\text{V}$	—	2.5	7.5	mA