LCD / LCM SPECIFICATION

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RG12864D

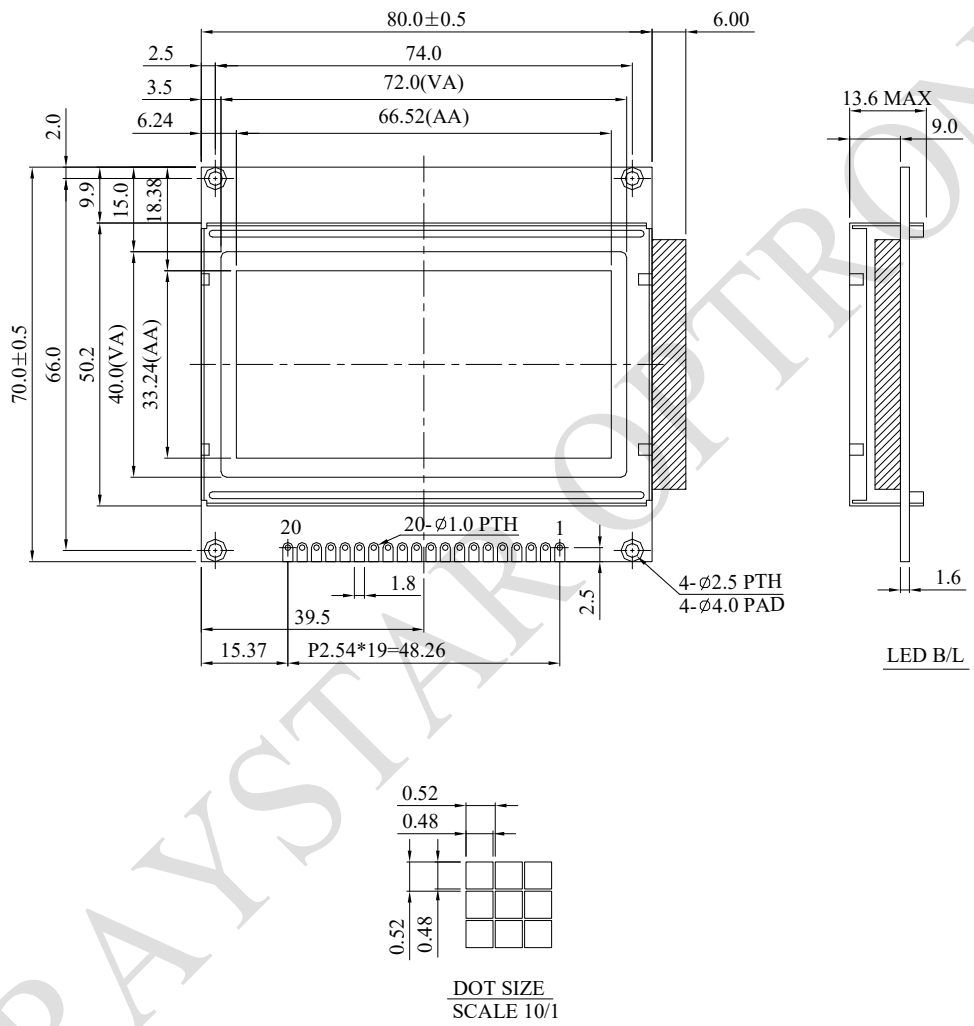
General Specification

- Module dimension: 80.0 x 70.0 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	Ground
2	V_{DD}	5.0V	Supply voltage for logic
3	V_O	(Variable)	Operating voltage for LCD
4	D/I	H/L	H: Data , L: Instruction
5	R/ W	H/L	H: Read (Module --> MPU) L: Write(MPU --> Module)
6	E	H	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	/RES	L	Reset signal
18	Vout	—	Negative Voltage output
19	A	—	Power supply for B/L +
20	K	—	Power supply for B/L -

Contour Drawing



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

Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	T_{OP}	-20	—	+70	℃
Storage Temperature	T_{ST}	-30	—	+80	℃
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	Ta=-20℃	—	—	10.5	V
		Ta=25℃	8.4	8.7	9.0	V
*Note		Ta=70℃	7.6	—	—	V
Input High Volt.	V_{IH}	—	0.7V_{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}=5.0V	—	3.0	—	mA