LCD / LCM SPECIFICATION

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RG128128I

General Specification

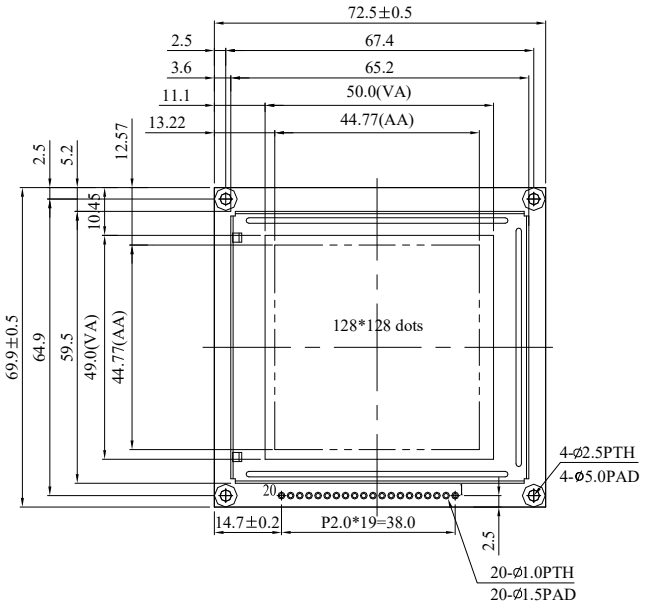
The Features is described as follow:

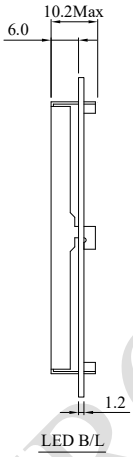
- Module dimension: 72.5 x 69.9 x 10.2 (MAX) mm
- View area: 50.0 x 49.0 mm
- Active area: 44.77 x 44.77 mm
- Number of Dots: 128 x 128
- Dot size: 0.32 x 0.32mm
- Dot pitch: 0.35 x 0.35 mm
- Duty: 1/128
- Backlight: LED
- IC:RA6963
- Interface:80 series

Interface Pin Function

Pin No.	Symbol	Level	Description
1	DB0	H / L	Data bus line
2	DB1	H / L	Data bus line
3	DB2	H / L	Data bus line
4	DB3	H / L	Data bus line
5	DB4	H / L	Data bus line
6	DB5	H / L	Data bus line
7	DB6	H / L	Data bus line
8	DB7	H / L	Data bus line
9	C/D	H / L	WR=L , C/D=H : Command Write C/D=L: Data write
10	/RD	H / L	Data read. Read data from RA6963 when RD = L
11	/WR	H / L	Data write. Write data into RA6963 when WR = L
12	/CE	L	L : Chip enable
13	/RST	L	H : Normal ; L : Initialize RA6963
14	Vo	—	Power supply for LCD
15	Vdd	5.0V	Power supply for logic circuit
16	V_{SS}	—	Ground
17	Vee	—	Negative Voltage Output
18	NC/FS	—	No connection
19	A	—	Power supply for B/L +
20	K	—	Power supply for B/L -

Contour Drawing





PIN NO.	SYMBOL
1	DB0
2	DB1
3	DB2
4	DB3
5	DB4
6	DB5
7	DB6
8	DB7
9	C/D
10	$\overline{RD}$
11	$\overline{WR}$
12	$\overline{CE}$
13	$\overline{RST}$
14	Vo
15	Vdd
16	Vss
17	Vee
18	NC/FS
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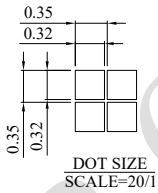

The non-specified tolerance of dimension is ±0.3mm.

Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	T_{OP}	-20	–	+70	℃
Storage Temperature	T_{ST}	-30	–	+80	℃
Input Voltage	V_{IN}	-0.3	–	V_{DD}+0.3	V
Supply Voltage For Logic	V_{DD}-V_{SS}	-0.3	–	+7.0	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_0	Ta=-20℃	–	–	–	V
		Ta=25℃	15.8	16.3	16.8	V
		Ta=70℃	–	–	–	V
Input High Volt.	V_{IH}	–	0.8V_{DD}	–	V_{DD}	V
Input Low Volt.	V_{IL}	–	0	–	0.15 V_{DD}	V
Output High Volt.	V_{OH}	–	V_{DD}-0.3	–	V_{DD}	V
Output Low Volt.	V_{OL}	–	0	–	0.3	V
Supply Current	I_{DD}	V_{DD}=5.0V	9	19	38	mA