LCD / LCM SPECIFICATION

RAYSTAR Optronics, Inc.
曜凌光電股份有限公司

曜凌光電股份有限公司
Raystar Optronics, Inc.
T: +886-4-2565-0761 | F: +886-4-2565-0760
salescontact@raystar-optronics.com | www.raystar-optronics.com

RG128128A

General Specification

- Module dimension: 85.0 × 100.0 × 14.5 (max.) mm
- View area: 62.0 × 62.0 mm
- Active area: 55.01 × 55.01 mm
- Number of dots: 128 × 128
- Dot size: 0.4 × 0.4 mm
- Dot pitch: 0.43 × 0.43 mm
- Duty: 1/128
- Backlight Type: LED
- IC:RA6963
- Interface:80 series

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Interface Pin Function

Pin No.	Symbol	Level	Description
1	FGND	—	Frame ground
2	GND	0V	Ground
3	Vdd	—	Power supply for logic
4	Vo	—	Power supply for LCD driver
5	/WR	L	Data write. Write data into RA6963 when /WR = L
6	/RD	L	Data read. Read data from RA6963 when RD = L
7	/CE	L	Chip enable the controller RA6963
8	C/D	H / L	WR=L , C/D=H : Command Write C/D=L: Data write
9	NC	—	No connection
10	/RESET	L	Reset signal
11	DB0	H / L	Data bus line
12	DB1	H / L	Data bus line
13	DB2	H / L	Data bus line
14	DB3	H / L	Data bus line
15	DB4	H / L	Data bus line
16	DB5	H / L	Data bus line
17	DB6	H / L	Data bus line
18	DB7	H / L	Data bus line
19	FS	H / L	Pins for selection of font ; H : 6 * 8 , L : 8 * 8
20	Vee	—	Negative Voltage Output
21	A	—	Power supply for B/L +
22	K	—	Power supply for B/L −

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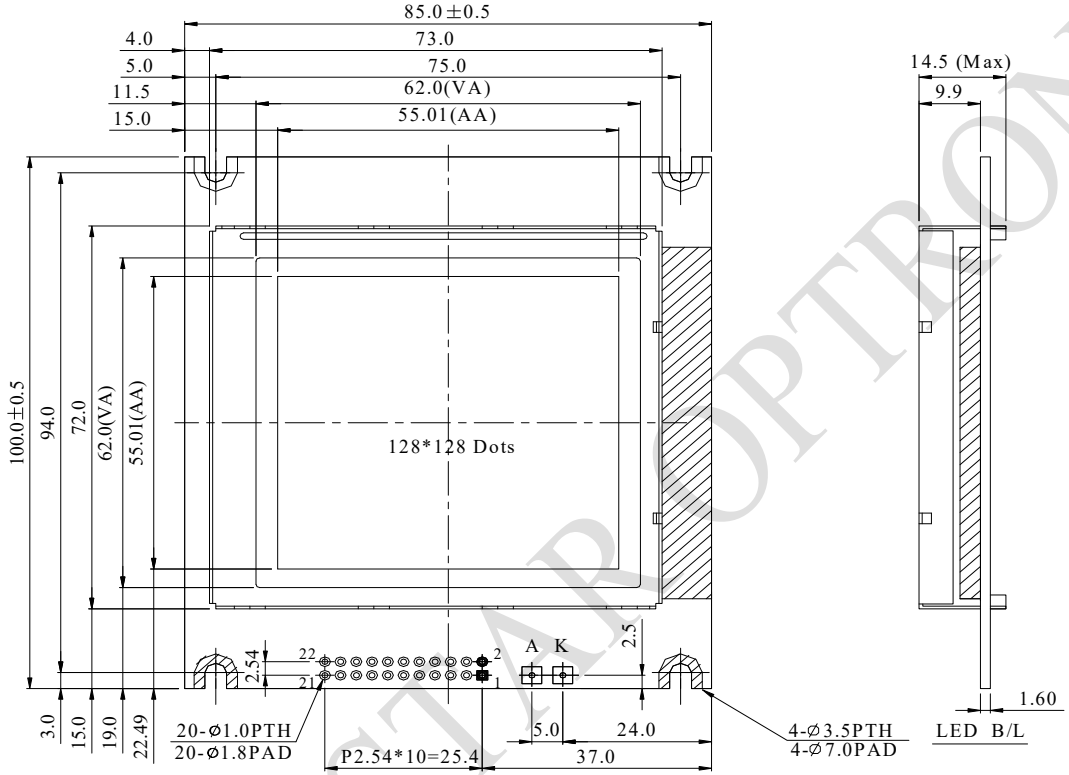
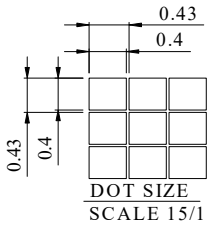
Contour Drawing





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1	FGND
2	GND
3	Vdd
4	VO
5	$\overline{WR}$
6	$\overline{RD}$
7	$\overline{CE}$
8	C/D
9	NC
10	$\overline{RESET}$
11	DB0
12	DB1
13	DB2
14	DB3
15	DB4
16	DB5
17	DB6
18	DB7
19	FS
20	VEE
21	A
22	K

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

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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℃	–	–	18.6	V
		Ta=25℃	16.2	16.35	16.5	V
		Ta=70℃	15.2	–	–	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}	–	–	45	50	mA

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