LCD / LCM SPECIFICATION

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RG24064A2

General Specification

The features is described as follow:

- Module Dimension: 180.0 x 65.0 x 12.3 (Max.) mm
- View Area: 133.0 x 39.0 mm
- Active Area: 127.16 x 33.88 mm
- Number of Dots: 240 x 64
- Dot Size: 0.49 x 0.49 mm
- Dot Pitch: 0.53 x 0.53 mm
- Duty: 1/64
- Backlight Type: LED
- IC: RA6963
- Interface: 80 series

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Interface Pin Function

Pin No.	Symbol	Level	Description
1	FG	—	Frame ground (Connected to bezel)
2	Vss	—	GND
3	Vdd	—	Power supply
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	L : Chip enable
8	C/D	H / L	WR=L , C/D=H : Command Write C/D=L: Data write RD=L , C/D=H : Status Read C/D=L: Data read
9	Vee	—	Negative voltage output
10	/RESET	H / L	H : Normal ; L : Initialize RA6963
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	NC	—	No connection

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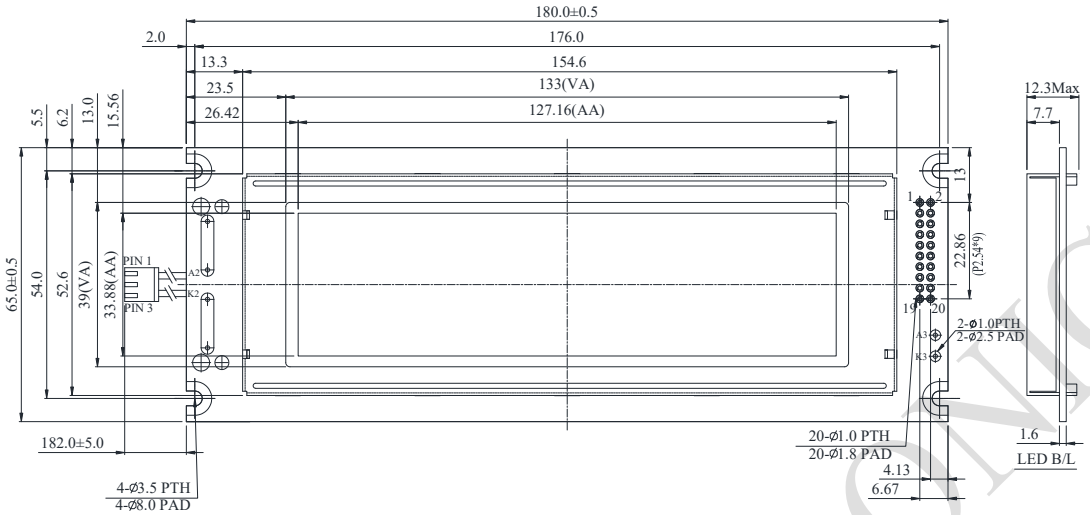
Contour Drawing



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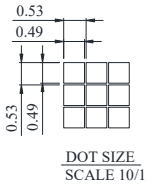

The non-specified tolerance of dimension is ±0.3mm.

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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℃	–	–	13.9	V
		Ta=25℃	12.1	12.5	12.9	V
		Ta=70℃	10.3	–	–	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}	–	–	26.0	35.0	mA

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