



RAYSTAR

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RG240128B

General Specification

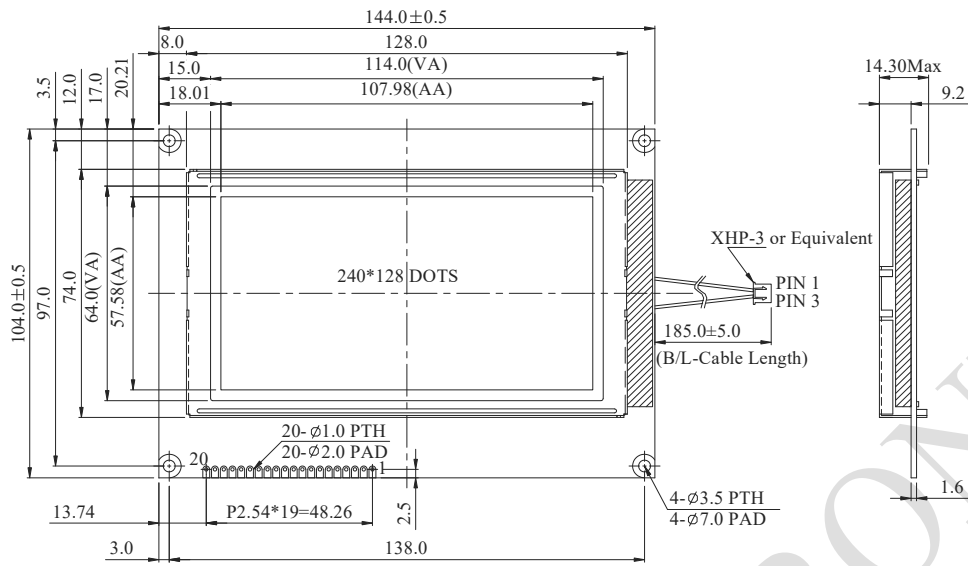
The Features is described as follow:

- Module dimension: 144.0 x 104.0 x 14.3 (max.) mm
- View area: 114.0 x 64.0 mm
- Active area: 107.98 x 57.58 mm
- Number of dots: 240 x 128
- Dot size: 0.43 x 0.43 mm
- Dot pitch: 0.45 x 0.45 mm
- Duty: 1/128
- Backlight Type: LED
- IC: RA6963
- Interface:80 series

Interface Pin Function

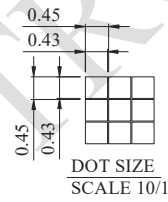
Pin No.	Symbol	Level	Description
1	Vss	—	GND
2	Vdd	—	Power supply
3	Vo	—	Power supply for LCD driver
4	C/D	H / L	WR=L , C/D=H : Command Write C/D=L: Data write RD=L , C/D=H : Status Read C/D=L: Data read
5	/RD	L	Data read. Read data from RA6963 when RD = L
6	/WR	L	Data write. Write data into RA6963 when WR = L
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	/CE	L	L : Chip enable
16	/RESET	H / L	H : Normal ; L : Initialize RA6963
17	Vee	—	Negative Voltage output
18	MD2	H / L	H: 32 columns ; L: 40 columns
19	FS1	H / L	Pins for selection of font ; H : 6 * 8 , L : 8 * 8
20	NC	—	No connection

Contour Drawing



Pin No.	Symbol
1	Vss
2	Vdd
3	Vo
4	C/D
5	RD
6	WR
7	DB0
8	DB1
9	DB2
10	DB3
11	DB4
12	DB5
13	DB6
14	DB7
15	CE
16	RESET
17	Vee
18	MD2
19	FS1
20	NC

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



Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	T_{OP}	-20	—	+70	°C
Storage Temperature	T_{ST}	-30	—	+80	°C
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	$V_{DD}-V_0$	$T_a=-20^{\circ}\text{C}$	—	—	21.6	V
		$T_a=25^{\circ}\text{C}$	18.9	19.5	20.1	V
		$T_a=70^{\circ}\text{C}$	17.8	—	—	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}	—	42.0	55.0	60.0	mA