



RAYSTAR

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RG16080D

General Specification

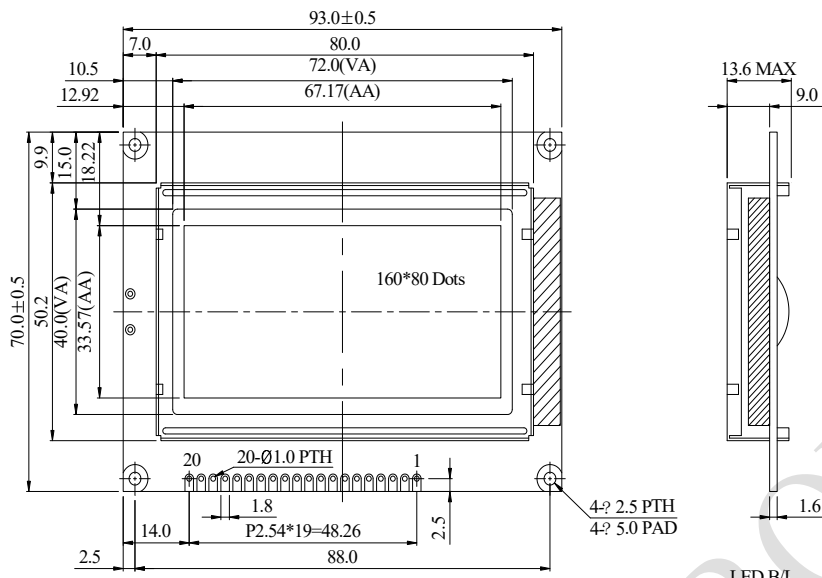
The Features is described as follow:

- Module dimension: 93.0 x 70.0 x 13.6 (max.) mm
- View area: 72.0 x 40.0 mm
- Active area: 67.17 x 33.57 mm
- Number of dots: 160 x 80
- Dot size: 0.39 x 0.39 mm
- Dot pitch: 0.42 x 0.42 mm
- Duty: 1/80DUTY ,1/9BIAS
- Backlight Type: LED
- IC: RA6963
- Interface: 80 series

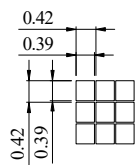
Interface Pin Function

Pin No.	Symbol	Level	Description
1	V _{SS}	-	Ground
2	V _{DD}	5.0V	Power supply for logic circuit
3	V _O	-	Contrast Adjustment
4	/WR	H / L	Data write. Write data into RA6963C when /WR = L
5	/RD	H / L	Data read. Read data from RA6963C when RD = L
6	C/D	H / L	Command/data read/write
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	Chip enable the controller RA6963C
16	NC/FS	-	No connection / Pins for selection of font ;
17	/RST	L	Reset active " L "
18	NC	-	No connection
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	/WR
5	/RD
6	C/D
7	DB0
8	DB1
9	DB2
10	DB3
11	DB4
12	DB5
13	DB6
14	DB7
15	/CE
16	NC/FS
17	/RST
18	NC
19	A
20	K



DOT SIZE
SCALE 10/1

The non-specified tolerance of dimension is $\pm 0.3\text{mm}$.

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	$V_{DD}-V_O$	$T_a=-20^{\circ}C$	—	—	—	V
		$T_a=25^{\circ}C$	13.2	13.5	13.8	V
		$T_a=70^{\circ}C$	—	—	—	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}	$V_{DD}=5.0V$	—	18.2	—	mA