LCD / LCM SPECIFICATION

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RG16080B1

General Specification

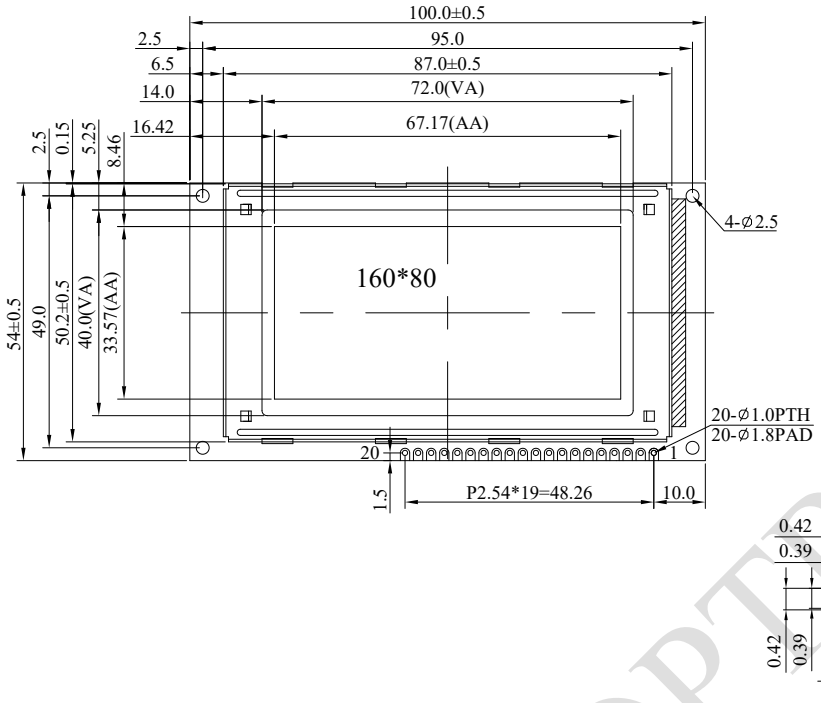
The Features is described as follow:

- Module dimension: 100.0 x 54.0 x 14.6 (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: 1/80
- Backlight Type: LED
- IC: RA6963
- Interface: 80 series

Interface Pin Function

Pin No.	Symbol	Level	Description
1	Vee	—	Negative Voltage Output
2	VSS	0V	Ground
3	VDD	—	Power supply for logic
4	V0	—	Power supply for LCD driver
5	/WR	H / L	Data write. Write data into RA6963 when /WR = L
6	/RD	H / L	Data read. Read data from RA6963 when RD = L
7	/CE	H / L	Chip enable the controller RA6963
8	/CD	H / L	Command/data read/write
9	/RST	L	Reset the LCM
10	DB0	H / L	Data bus line
11	DB1	H / L	Data bus line
12	DB2	H / L	Data bus line
13	DB3	H / L	Data bus line
14	DB4	H / L	Data bus line
15	DB5	H / L	Data bus line
16	DB6	H / L	Data bus line
17	DB7	H / L	Data bus line
18	FS	H / L	Pins for selection of font ;
19	A	—	Power supply for B/L +
20	K	—	Power supply for B/L -

Contour Drawing



PIN NO.	SYMBOL
1	Vee
2	VSS
3	VDD
4	VO
5	/WR
6	/RD
7	/CE
8	C/D
9	/RST
10	DB0
11	DB1
12	DB2
13	DB3
14	DB4
15	DB5
16	DB6
17	DB7
18	FS
19	A
20	K

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	℃
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℃	11.0	11.5	12.0	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}	–	13.8	14.2	16.0	mA