LCD / LCM SPECIFICATION

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RG16032E

General Specification

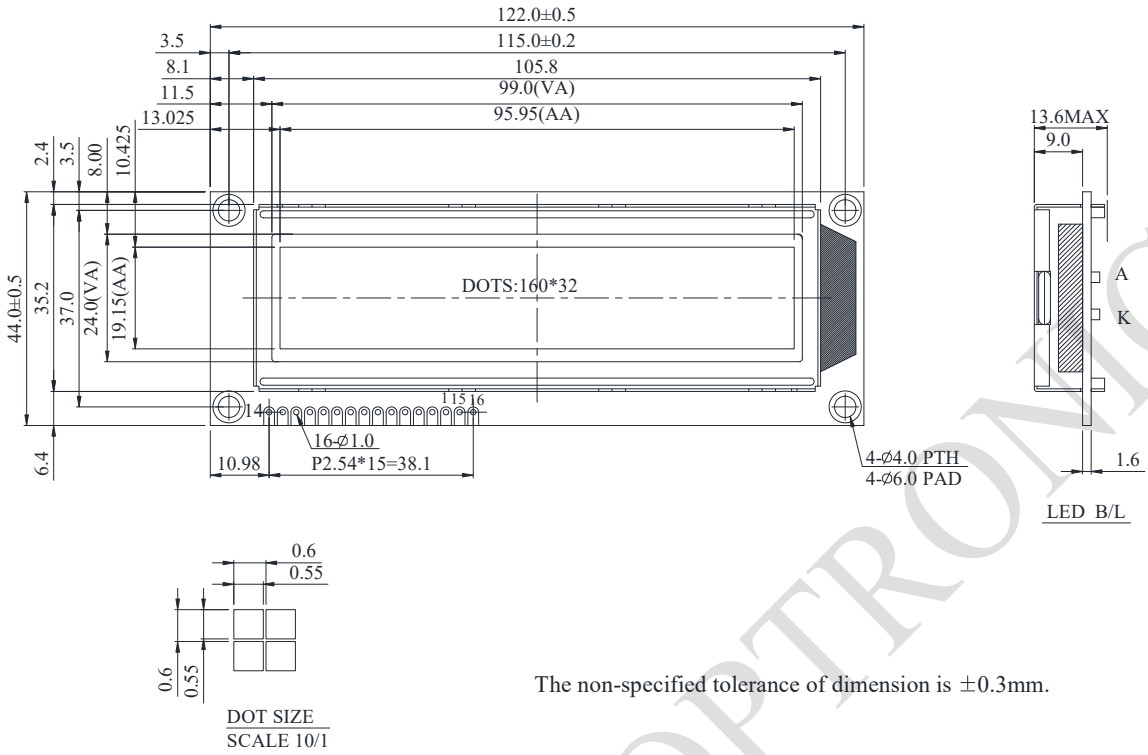
The Features is described as follow:

- Module dimension: 122.0 x 44.0x 13.6 (max.) mm
- View area: 99.0 x 24.0 mm
- Active area: 95.95 x 19.15 mm
- Number of dots: 160 x 32
- Dot size: 0.55 x 0.55 mm
- Dot pitch: 0.60 x 0.60 mm
- Duty: 1/32
- Backlight Type: LED
- IC: ST7920

Interface Pin Function

Pin No.	Symbol	Level	Description
1	VSS	0V	Ground
2	VDD	5.0V	Supply voltage for logic
3	NC	—	No connection
4	RS	H/L	Register select signal
5	R/W	H/L	H: read data L: write data
6	E	H/L	Enable signal
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	A	—	Power supply for B/L +
16	K	—	Power supply for B/L -

Contour Drawing



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10	DB3
11	DB4
12	DB5
13	DB6
14	DB7
15	A
16	K

DOT SIZE
SCALE 10/1

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

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	–	5.5	V
LCD Driver Voltage	V_{LCD}	-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_0-V_{SS}	Ta=-20℃	–	–	–	V
		Ta=25℃	–	–	–	V
		Ta=+70℃	–	–	–	V
Input High Volt.	V_{IH}	–	0.7V_{DD}	–	V_{DD}	V
Input Low Volt.	V_{IL}	–	-0.3	–	0.6	V
Output High Volt.	V_{OH}	–	0.8 V_{DD}	–	V_{DD}	V
Output Low Volt.	V_{OL}	–	–	–	0.4	V
Supply Current	I_{DD}	V_{DD}=5.0V	4.48	5.15	5.73	mA