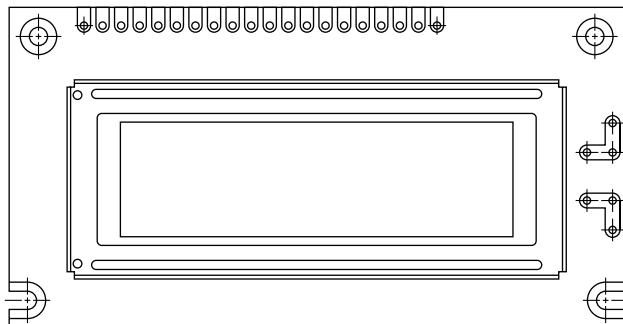


## 122 x 32 Graphic LCD



### FEATURES

- Type: Graphic
- Display format: 122 x 32 dots
- Built-in controller: ST7920
- Duty cycle: 1/32
- Chinese version
- Same size with LCD-122H032A
- Compliant to RoHS directive 2002/95/EC


**RoHS**  
COMPLIANT

### MECHANICAL DATA

ITEM	STANDARD VALUE	UNIT
Module Dimension	84.0 x 44.0	mm
Viewing Area	60.0 x 18.0	
Dot Size	0.40 x 0.45	
Dot Pitch	0.44 x 0.49	
Mounting Hole	79.0 x 36.0	
Character Size	N/a	

### ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	STANDARD VALUE			UNIT
		MIN.	TYP.	MAX.	
Power Supply	$V_{DD}$ to $V_{SS}$	0	-	7.0	V
Input Voltage	$V_I$	0	-	$V_{DD}$	

#### Note

- $V_{SS} = 0$  V,  $V_{DD} = 5.0$  V

### ELECTRICAL CHARACTERISTICS

ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
			MIN.	TYP.	MAX.	
Input Voltage	$V_{DD}$	-	4.5	5.0	5.5	V
Supply Current	$I_{DD}$	$V_{DD} = +5$ V	1.2	1.4	1.8	mA
Recommended LC Driving Voltage for Normal Temperature Version Module	$V_{DD}$ to $V_0$	- 20 °C	-	-	5.2	V
		25 °C	-	4.4	-	
		70 °C	3.7	-	-	
CCFL Starting Voltage	$V_{FLS}$	25 °C	-	-	-	$V_{RMS}$
CCFL Driving Voltage	$V_{FLD}$	25 °C	-	-	-	$V_{RMS}$
CCFL Driving Current	$I_{FLD}$	$V_{FQ} = 450$ $V_{RMS}$ , 30 kHz	-	-	-	$mA_{RMS}$
LED Forward Voltage	$V_F$	25 °C	4.0	4.2	4.4	V
LED Forward Current	$I_F$	25 °C	90	120	180	mA
EL Power Supply Current	$I_{EF}$	$V_{EL} = 110$ $V_{AC}$ , 400 Hz	-	-	5.0	mA

### OPTIONS

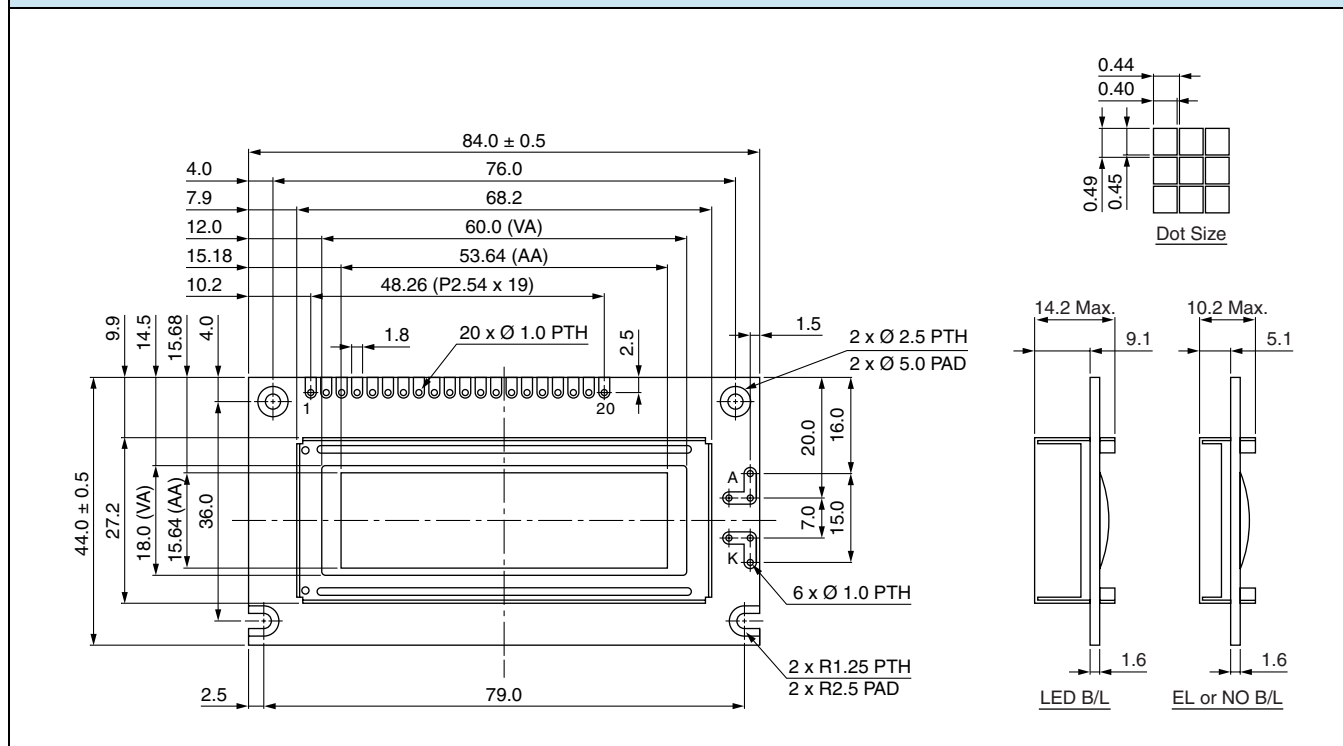
PROCESS COLOR						BACKLIGHT			
TN	STN Gray	STN Yellow	STN Blue	FSTN B&W	STN Color	None	LED	EL	CCFL
	x	x	x	x		x	x	x	

For detailed information, please see the "Product Numbering System" document.

## INTERFACE PIN FUNCTION

PIN NO.	SYMBOL	FUNCTION
1	$V_{SS}$	Ground
2	$V_{DD}$	Supply voltage for logic
3	$V_0$	Operating voltage for LCD
4	RS	H/L register select signal
5	$V_{OUT}$	Positive voltage output
6	NC	NC
7	NC	NC
8	E	Enable signal
9	R/W	H: Read data/L: Write data
10	DB0	Data bus line
11	DB1	Data bus line
12	DB2	Data bus line
13	DB3	Data bus line
14	DB4	Data bus line
15	DB5	Data bus line
16	DB6	Data bus line
17	DB7	Data bus line
18	$\overline{RES}$	L: Reset the LCM
19	A	Power supply for B/L (+)
20	K	Power supply for B/L (-)

## DIMENSIONS in millimeters





## Disclaimer

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