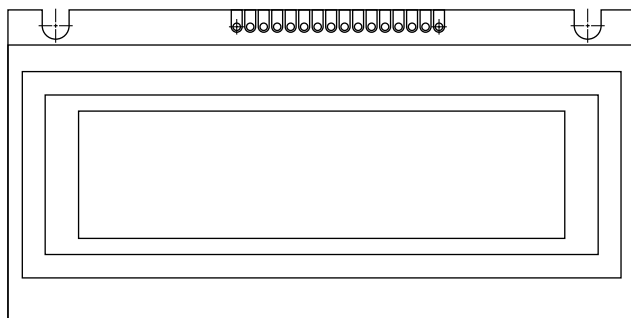


## 122 x 32 Graphic LCD



### FEATURES

- Type: Graphic
- Display format: 122 x 32 dots
- Built-in controller: ST7920
- Duty cycle: 1/32
- N.V. optional for + 3 V power supply
- Chinese version
- Same size with LCD-122H032D
- Compliant to RoHS directive 2002/95/EC


**RoHS**  
COMPLIANT

### MECHANICAL DATA

ITEM	STANDARD VALUE	UNIT
Module Dimension	59.0 x 29.3 x 5.5	mm
Viewing Area	52.0 x 15.0	
Dot Size	0.345 x 0.345	
Dot Pitch	0.375 x 0.375	
Mounting Hole	50.0	
Character Size	N/a	

### ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	STANDARD VALUE			UNIT
		MIN.	TYP.	MAX.	
Power Supply	$V_{DD}$ to $V_{SS}$	4.75	5.0	5.25	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	0.8	1.0	1.5	mA
Recommended LC Driving Voltage for Normal Temperature Version Module	$V_{DD}$ to $V_0$	- 20 °C	-	-	5.8	V
		25 °C	-	4.0	-	
		70 °C	3.2	-	-	
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	30	40	60	mA
EL Power Supply Current	$I_{EF}$	$V_{EL} = 110$ $V_{AC}$ , 400 Hz	-	-	5.0	mA

### OPTIONS

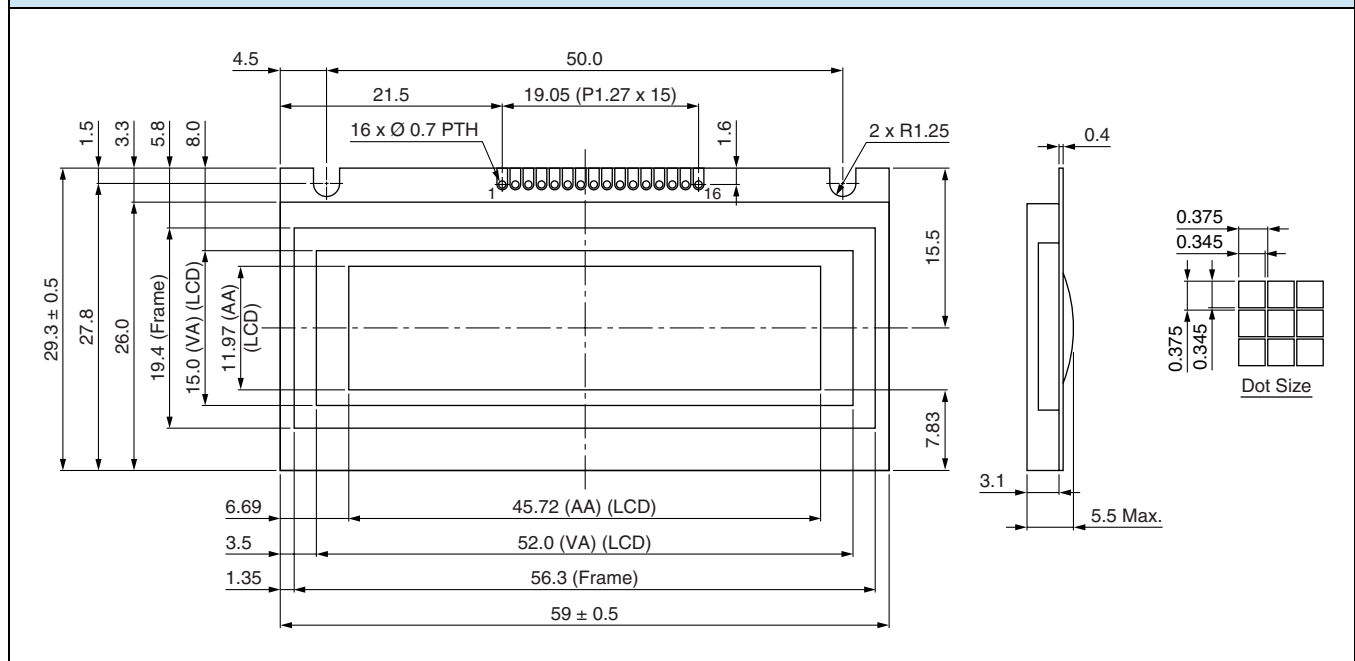
PROCESS COLOR						BACKLIGHT			
TN	STN Gray	STN Yellow	STN Blue	FSTN B&W	STN Color	None	LED	EL	CCFL
	x	x		x		x	x	x	

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

## INTERFACE PIN FUNCTION

PIN NO.	SYMBOL	FUNCTION
1	$\bar{V}_{LED}$	B/L selected
2	$V_{SS}$	Ground
3	$V_{DD}$	Supply voltage for logic
4	$V_0$	Operating voltage for LCD
5	RS	H: Date/L: Instruction
6	E	Enable signal
7	$V_{OUT}$	Positive voltage output
8	DB0	Data bus line
9	DB1	Data bus line
10	DB2	Data bus line
11	DB3	Data bus line
12	DB4	Data bus line
13	DB5	Data bus line
14	DB6	Data bus line
15	DB7	Data bus line
16	$R/\bar{W}$	H: Read data/L: Write data

**DIMENSIONS** in millimeters





## Disclaimer

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