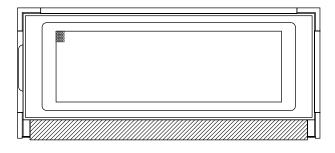
## LCD-122H032BP1



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## 122 x 32 Graphic LCD



MECHANICAL DATA					
ITEM	STANDARD VALUE	UNIT			
Module Dimension	65.4 x 28.2 x 10.5				
Viewing Area	54.8 x 19.0				
Dot Size	0.36 x 0.41				
Dot Pitch	0.40 x 0.45	- mm			
Mounting Hole	N/a				
Character Size	N/a				

## FEATURES

- Type: Graphic
- Display format: 122 x 32 dots
- Built-in controller: Epson SED1520 (or equivalent)
  RoHS
  COMPLIANT
- Duty cycle: 1/32
- Available for internal oscillation 2 kHz
- + 2.85 V to + 5 V power supply
- Compliant to RoHS directive 2002/95/EC

ABSOLUTE MAXIMUM RATINGS						
ITEM	CVMPOL	STAN				
	SYMBOL	MIN.	TYP.	MAX.	UNIT	
Power Supply	$V_{\text{DD}}$ to $V_{\text{SS}}$	4.75	5.0	5.25	V	
Input Voltage	VI	0	-	$V_{DD}$		

Note

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

ELECTRICAL CHARACTERISTICS								
ITEM	SYMBOL	CONDITION	ST	LINUT				
	SYMBOL CONDITION		MIN.	TYP.	MAX.	UNIT		
Input Voltage	V <sub>DD</sub>	$V_{DD} = +5 \text{ V} \pm 1 \text{ V}$	4.5	5.0	5.5	V		
Supply Current	I <sub>DD</sub>	V <sub>DD</sub> = + 5 V	-	1.0	1.4	mA		
	$V_{DD}$ to $V_0$	- 20 °C	4.7	4.9	5.5			
Recommended LC Driving Voltage for Normal Temperature Version Module		0 °C	4.5	4.7	4.9	v		
		25 °C	4.3	4.5	4.7			
		50 °C	4.2	4.3	4.5			
		70 °C	4.0	4.1	4.3			
LED Forward Voltage	V <sub>F</sub>	25 °C	1.7	2.1	2.5	V		
LED Forward Current	I <sub>F</sub>	25 °C	-	100	200	mA		
EL Power Supply Current	I <sub>EL</sub>	V <sub>EL</sub> = 110 V <sub>AC</sub> , 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
	х	х					х		

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

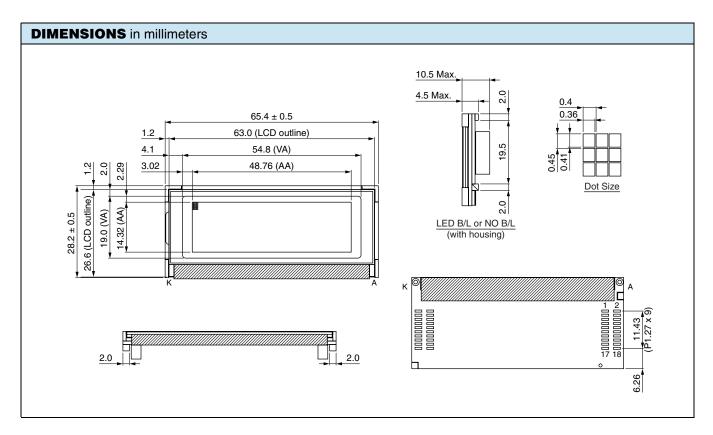
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122 x 32 Graphic LCD

INTERFACE PIN FUNCTION					
PIN NO.	SYMBOL	FUNCTION			
1	V <sub>DD</sub>	Supply voltage for logic ground			
2	V <sub>SS</sub>	Ground			
3	V <sub>0</sub>	Operating voltage for LCD			
4	RES	L: Reset the LCM			
5	E1	Enable chip 1			
6	E2	Enable chip 2			
7	R/W	H/L read/write data			
8	A <sub>0</sub>	H/L data/instruction			
9	DB0	Data bus line			
10	DB1	Data bus line			
11	DB2	Data bus line			
12	DB3	Data bus line			
13	DB4	Data bus line			
14	DB5	Data bus line			
15	DB6	Data bus line			
16	DB7	Data bus line			
17	A	+ 2.1 V for LED			
18	К	Power supply for B/L (0 V)			





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