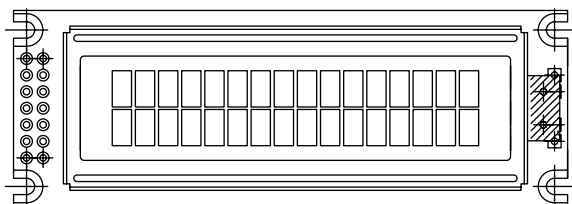


## 16 x 2 Character LCD



### FEATURES

- Type: Character
- Display format: 16 x 2 characters
- Built-in controller: KS 0066 (or equivalent)
- Duty cycle: 1/16
- 5 x 8 dots includes cursor
- + 5 V power supply
- LED can be driven by pin 1, pin 2, or A and K
- Optional: Smaller character size (2.95 mm x 4.35 mm)
- Compliant to RoHS directive 2002/95/EC


**RoHS**  
COMPLIANT

### MECHANICAL DATA

ITEM	STANDARD VALUE	UNIT
Module Dimension	85.0 x 30.0	mm
Viewing Area	66.0 x 16.0	
Dot Size	0.55 x 0.65	
Dot Pitch	0.60 x 0.70	
Mounting Hole	81.0 x 24.0	
Character Size	2.96 x 5.56	

### ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	STANDARD VALUE			UNIT
		MIN.	TYP.	MAX.	
Power Supply	$V_{DD}$ to $V_{SS}$	- 0.3	-	7.0	V
Input Voltage	$V_I$	- 0.3	-	$V_{DD}$	

#### Note

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

### ELECTRICAL CHARACTERISTICS

ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
			MIN.	TYP.	MAX.	
Input Voltage	$V_{DD}$	$V_{DD} = + 5$ V	4.7	5.0	5.3	V
Supply Current	$I_{DD}$	$V_{DD} = + 5$ V	-	1.2	1.5	mA
Recommended LC Driving Voltage for Normal Temperature Version Module	$V_{DD}$ to $V_0$	- 20 °C	-	-	5.2	V
		0 °C	-	-	4.2	
		25 °C	-	3.8	-	
		50 °C	3.5	-	-	
		70 °C	3.2	-	-	
LED Forward Voltage	$V_F$	25 °C	-	4.2	4.6	V
LED Forward Current - Array	$I_F$	25 °C	-	100	-	mA
LED Forward Current - Edge			-	20	40	
EL Power Supply Current	$I_{EL}$	$V_{EL} = 110$ 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
x	x	x	x			x	x	x	

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

## DISPLAY CHARACTER ADDRESS CODE

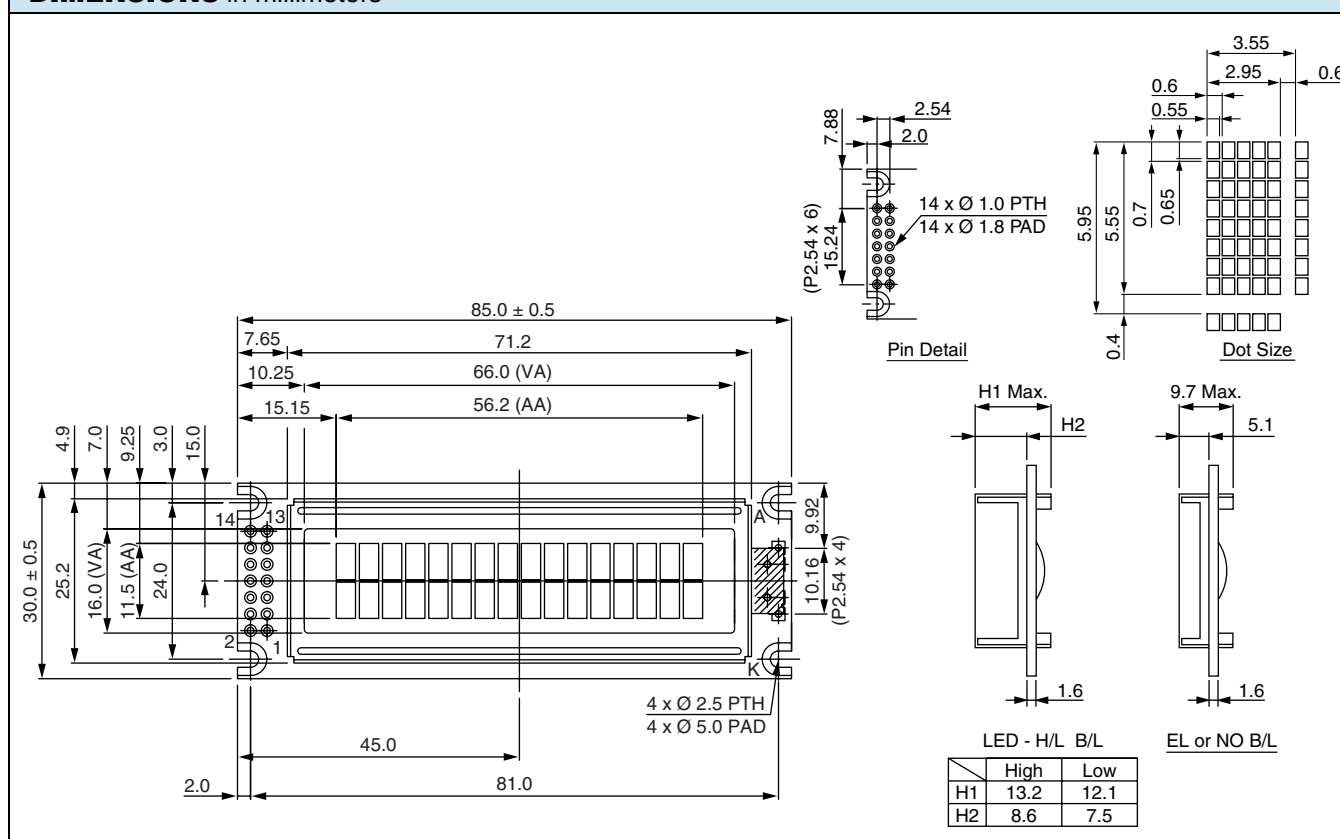
Display Position

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
DD RAM Address	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
DD RAM Address	40	41	42	43	44	45	46	47	48	49	4A	4B	4C	4D	4E	4F

## INTERFACE PIN FUNCTION

PIN NO.	SYMBOL	FUNCTION
1	V <sub>DD</sub>	Power supply (+ 5 V)
2	V <sub>SS</sub>	Ground
3	V <sub>0</sub>	Contrast adjustment
4	RS	H/L register select signal
5	R/ $\overline{W}$	H/L read/write signal
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

## DIMENSIONS in millimeters





## Disclaimer

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**Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.**

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Электрон  
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