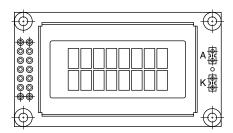




8 x 2 Character LCD



MECHANICAL DATA				
ITEM STANDARD VALUE		UNIT		
Module Dimension	58.0 x 32.0			
Viewing Area	38.0 x 16.0			
Dot Size	0.56 x 0.66	mm		
Dot Pitch	0.60 x 0.70	'''''		
Mounting Hole	53.0 x 27.0			
Character Size	2.96 x 5.56			

FEATURES

• Type: Character

• Display format: 8 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

• Compliant to RoHS directive 2002/95/EC

ABSOLUTE MAXIMUM RATINGS						
ITEM	SYMBOL	STAN	UNIT			
I I E IVI	STINIBUL	MIN.	TYP.	MAX.	UNIT	
Power Supply	V_{DD} to V_{SS}	- 0.3	-	7.0	V	
Input Voltage	VI	- 0.3	-	V_{DD}]	

Note

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

ELECTRICAL CHARACTERISTICS							
	SYMBOL	COMPITION	STANDARD VALUE				
ITEM	STWBOL	CONDITION	MIN.	TYP.	MAX.	UNIT	
Input Voltage	V _{DD}	V _{DD} = + 5 V	4.7	5.0	5.3	V	
Supply Current	I _{DD}	V _{DD} = + 5 V	-	1.5	1.7	mA	
Recommended LC Driving Voltage for Normal Temperature Version Module		- 20 °C	4.9	5.2	5.5	v	
	V _{DD} to V ₀	0 °C	4.5	4.8	5.1		
		25 °C	4.1	4.4	4.7		
		50 °C	3.8	4.2	4.4		
		70 °C	3.5	4.0	4.1		
LED Forward Voltage	V _F	25 °C	=	4.2	4.6	V	
LED Forward Current	I _F	25 °C	=	70	140	mA	
EL Power Supply Current	I _{EL}	V _{EL} = 110 V _{AC} , 400 Hz	=	-	5.0	mA	

OPTION	OPTIONS								
		PROCES	S COLOR				BACK	LIGHT	
TN	STN Gray	STN Yellow	STN Blue	FSTN B&W	STN Color	None	LED	EL	CCFL
х	х	х	х			х	х	х	

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

8 x 2 Character LCD



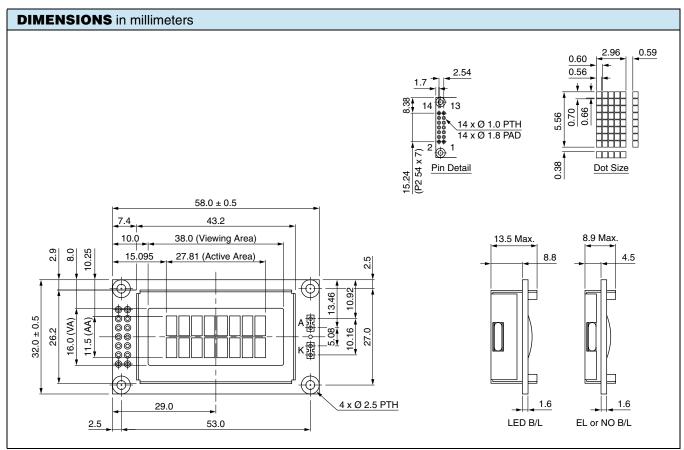
DISPLAY CHARACTER ADDRESS CODE

Display Position

DD RAM Address DD RAM Address

1	2	3	4	5	6	7	8
00	01	02	03	04	05	06	07
40	41	42	43	44	45	46	47

INTERFACE PIN FUNCTION				
PIN NO.	SYMBOL	FUNCTION		
1	V _{SS}	Ground		
2	V _{DD}	+ 5 V		
3	V ₀	Contrast adjustment		
4	RS	H/L register select signal		
5	R/W	H/L read/write signal		
6	E	$H \rightarrow L$ 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		





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Vishay

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