LCD-016N002M



MECHANICAL DA

Module Dimension Viewing Area

ITEM

Dot Size

Dot Pitch

Mounting Hole

Character Size

Vishay

16 x 2 Character LCD

FEATURES

- Type: Character
- Display format: 16 x 2 characters
- Built-in controller: ST 7066 (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
- N.V. optional for + 3 V power supply
- Optional: Smaller character size (2.95 mm x 4.35 mm)
- Material categorization: For definitions of compliance please see <u>www.vishay.com/doc?99912</u>

ABSOLUTE MAXIMUM RATINGS									
ITEM	SYMBOL	STAN	ALUE	UNIT					
	STINDUL	MIN.	TYP.	MAX.					
Power Supply	V_{DD} to V_{SS}	- 0.3	-	7.0	v				
Input Voltage	VI	- 0.3	-	V_{DD}	v				

Note

[•] $V_{SS} = 0 V, V_{DD} = 5.0 V$

ELECTRICAL CHARACTERISTICS										
	CYMDOI	CONDITION	ST							
ITEM	SYMBOL	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	-	1.2	1.5	mA				
		- 20 °C	-	-	5.2					
Recommended LC Driving		0 °C	-	-	4.2					
Voltage for Normal Temperature	V_{DD} to V_0	25 °C	-	3.8	-	V				
Version Module		50 °C	3.5	-	-	1				
		70 °C 3	3.2	-	-					
LED Forward Voltage	V _F	25 °C	-	4.2	4.6	V				
LED Forward Current - Array		05.00	-	100	-					
LED Forward Current - Edge	– I _F	25 °C	-	20	40	mA				
EL Power Supply Current	I _{EL}	V _{EL} = 110 V _{AC} , 400 Hz	-	-	5.0	mA				

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	х			

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



RoHS

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STANDARD VALUE	UNIT		
85.0 x 32.6			

66.0 x 16.0

0.56 x 0.66

0.60 x 0.70

79.0 x 25.2

2.96 x 5.56

A

mm

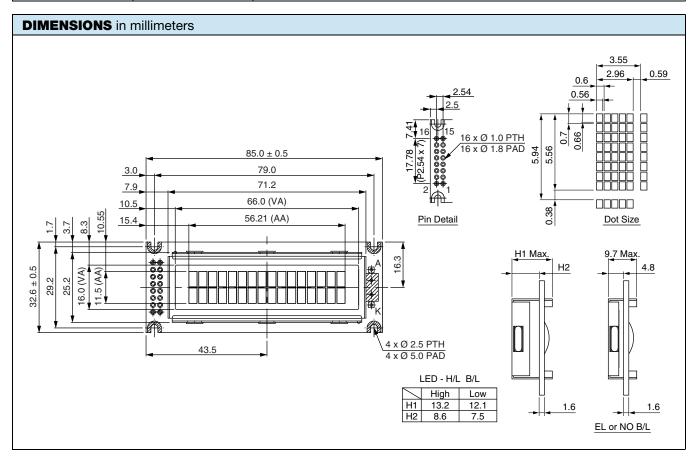
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DISPLAY CHARACTER ADDRESS CODE

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 _{SS}	Ground					
2	V _{DD}	Power supply (+ 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					
15	A/V _{EE}	Power supply for B/L					
16	К	Power supply for B/L					



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