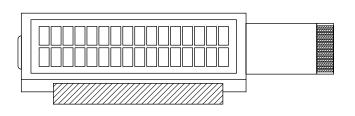


LCD-016N002V

Vishay

16 x 2 Character LCD



MECHANICAL DATA							
ITEM	STANDARD VALUE	UNIT					
Module Dimension	89.0 x 19.6						
Viewing Area	61.0 x 15.9						
Dot Size	0.55 x 0.55						
Dot Pitch	0.60 x 0.70	mm					
Mounting Hole	N/a						
Character Size	2.95 x 5.55						

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
- Compliant to RoHS directive 2002/95/EC

ABSOLUTE MAXIMUM RATINGS								
ITEM	M SYMBOL		STANDARD VALUE					
	STINDUL	MIN.	TYP.	MAX.	UNIT			
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									
ITEM	SYMBOL	CONDITION	ST	STANDARD VALUE					
	STMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT			
Input Voltage	V _{DD}	-	4.7	5.0	5.3	V			
Supply Current	I _{DD}	V _{DD} = + 5 V	-	1.0	1.2	mA			
		- 20 °C	5.1	5.7					
Recommended LC Driving	V_{DD} to V_{0}	0 °C	4.6	4.8	5.2				
Voltage for Normal Temperature		25 °C	4.1	4.5	4.7	v			
Version Module		50 °C	3.9	4.2	4.2 4.5				
		70 °C	3.7	3.9	4.3	1			
LED Forward Voltage	V _F	25 °C	-	-	-	V			
LED Forward Current	١ _F	25 °C	-	-	-	mA			
EL Power Supply Current	I _{EL}	V _{EL} = 110 V _{AC} , 400 Hz	-	-	-	mA			

OPTION	OPTIONS								
		PROCES	S COLOR	BACKLIGHT					
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.

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

Document Number: 37400 Revision: 17-Jun-09 For technical questions, contact: displays@vishay.com

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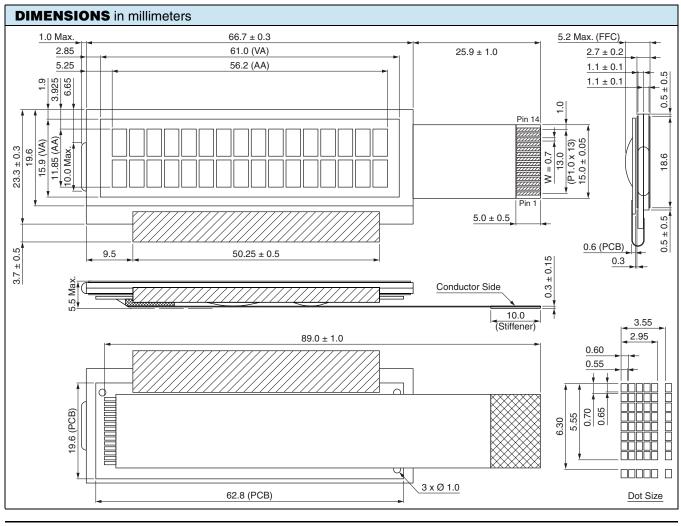
COMPLIANT

Vishay

16 x 2 Character LCD



INTERFACE PIN FUNCTION						
PIN NO.	SYMBOL	FUNCTION				
1	V _{DD}	Supply voltage for logic				
2	V ₀	Contrast adjustment				
3	RS	H: Data/L: Instruction				
4	R/W	H: Read data/L: Write data				
5	E	Enable signal				
6	DB0	Data bus line				
7	DB1	Data bus line				
8	DB2	Data bus line				
9	DB3	Data bus line				
10	DB4	Data bus line				
11	DB5	Data bus line				
12	DB6	Data bus line				
13	DB7	Data bus line				
14	V _{SS}	Ground				



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