OLED-016N002C

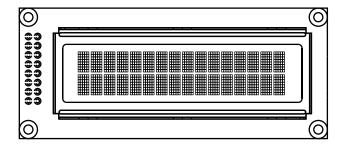


Vishay

RoHS

COMPLIANT

16 x 2 Character OLED



MECHANICAL DATA					
ITEM	STANDARD VALUE	UNIT			
Module dimension	85.0 x 36.0 x 10.0 (max.)				
Viewing area	66.0 x 16.0				
Active area	56.95 x 11.85				
Dot size	0.55 x 0.65				
Dot pitch	0.60 x 0.70	mm			
Mounting hole	80.0 x 31.0				
Character size	2.95 x 5.55				
Character pitch	3.6 x 6.3				

FEATURES

- Type: Character
- Display format: 16 x 2 characters
- Built-in controller: OLED-0010
- Duty cycle: 1/16
- +5 V power supply, +3 V optional
- Interface: 6800, option 8080 and SPI
- Sunlight readable and polarizer optional
- Material categorization: For definitions of compliance please see <u>www.vishay.com/doc?99912</u>

ABSOLUTE MAXIMUM RATINGS						
ITEM	SYMBOL	STANDAF	UNIT			
	STWIDOL	MIN.	MAX.	UNIT		
Supply voltage for logic	V_{DD} to V_{SS}	-0.3	5.3	V		
Input voltage	VI	-0.3	V _{DD}			

Note

• $V_{SS} = 0 V, V_{DD} = 3.0 V/5.0 V$

ELECTRICAL CHARACTERISTICS						
ITEM	CYMDOL	CONDITION	STANDARD VALUE			
	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT
Supply voltage for logic	V_{DD} to V_{SS}	-	3.0	5.0	5.3	V
Input high voltage	V _{IH}	-	0.9 V _{DD}	-	V _{DD}	V
Input low voltage	V _{IL}	-	GND	-	0.1 V _{DD}	V
Output high voltage	V _{OH}	I _{OH} = 0.5 mA	0.8 V _{DD}	-	V _{DD}	V
Output low voltage	V _{OL}	I _{OL} = 0.5 mA	GND	-	0.2 V _{DD}	V
Supply current	I _{DD}	$V_{DD} = 5 V$	-	30	-	mA

OPTIONS									
EMITTING COLOR				MOQ					
YELLOW	GREEN	RED	BLUE	WHITE	YELLOW	GREEN	RED	BLUE	WHITE
Y	Y	Y	Y	Y	Ν	Y	Y	Y	Y

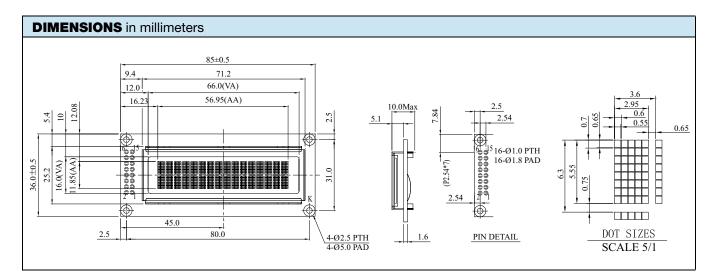
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INTERFACE PIN FUNCTION					
PIN NO.	SYMBOL	FUNCTION			
1	V _{SS}	Ground			
2	V _{DD}	Supply voltage for logic			
3	NC	No connection			
4	RS	H: Data; L: Instruction code			
5	R/W	H: Read (MPU \leftarrow Module); L: Write (MPU \rightarrow Module)			
6	E	$H \rightarrow L$ enable signal			
7	DB0	Data bit 0			
8	DB1	Data bit 1			
9	DB2	Data bit 2			
10	DB3	Data bit 3			
11	DB4	Data bit 4			
12	DB5	Data bit 5			
13	DB6	Data bit 6			
14	DB7	Data bit 7			
15	NC	No connection			
16	NC	No connection			



2



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