



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

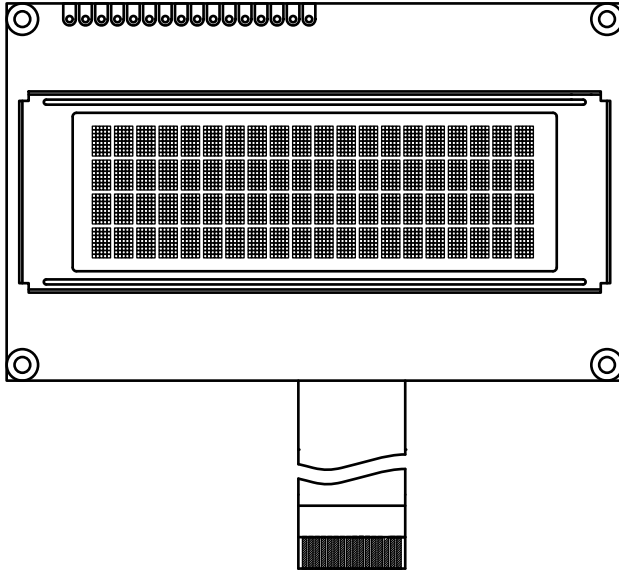
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## 20 x 4 Character OLED



### FEATURES

- Type: Character
- Display format: 20 x 4 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 [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)


**RoHS**  
COMPLIANT

MECHANICAL DATA		
ITEM	STANDARD VALUE	UNIT
Module dimension	98.0 x 60.0 x 10.0 (max.)	mm
Viewing area	70.0 x 25.2	
Active area	70.16 x 20.95	
Dot size	0.54 x 0.55	
Dot pitch	0.59 x 0.60	
Mounting hole	93.0 x 55.0	
Character size	2.9 x 4.75	
Character pitch	3.54 x 5.4	

ABSOLUTE MAXIMUM RATINGS				
ITEM	SYMBOL	STANDARD VALUE		UNIT
		MIN.	MAX.	
Supply voltage for logic	$V_{DD}$ to $V_{SS}$	-0.3	5.3	V
Input voltage	$V_I$	-0.3	$V_{DD}$	

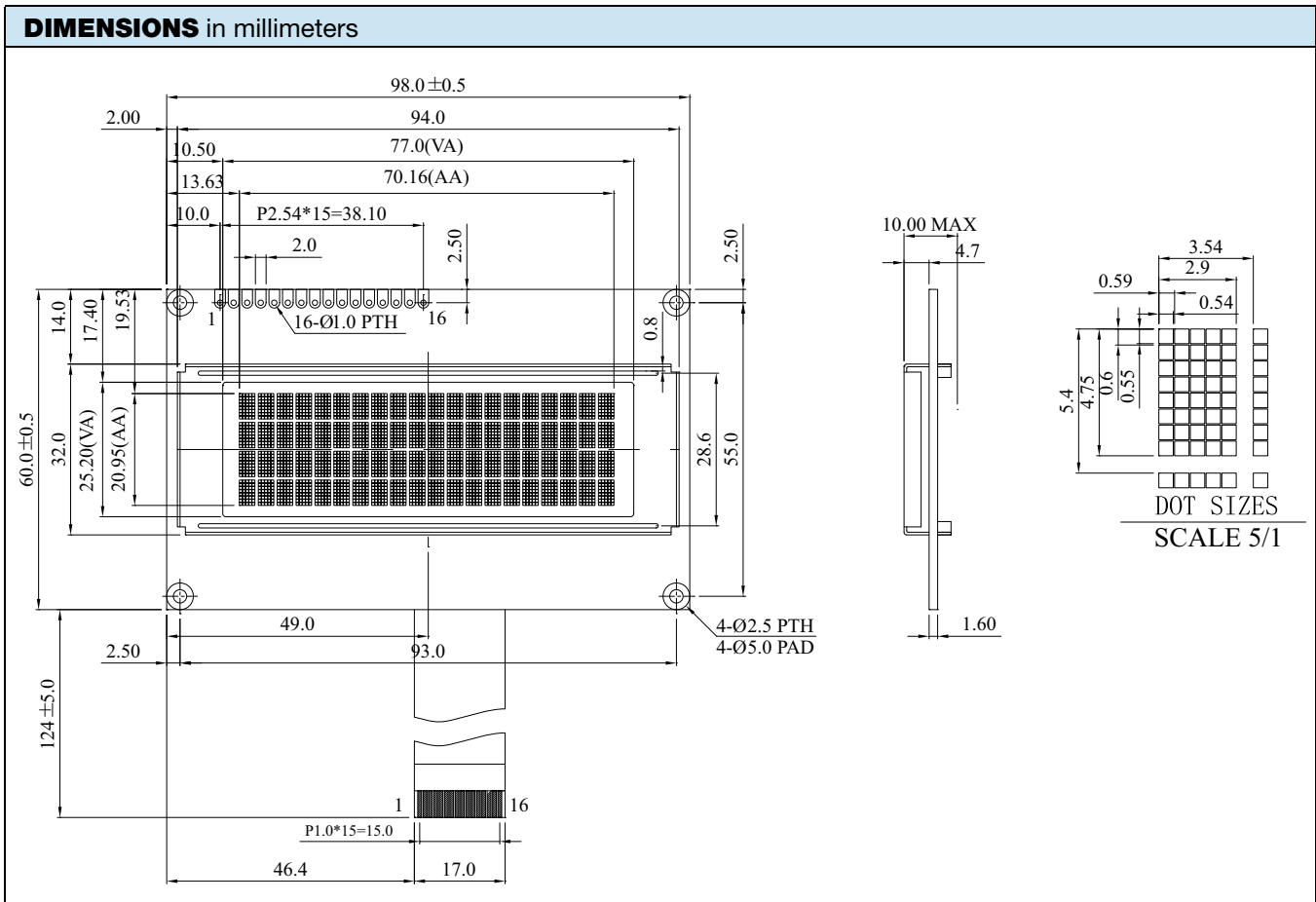
### Note

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

ELECTRICAL CHARACTERISTICS							
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT	
			MIN.	TYP.	MAX.		
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	-	43	-	mA	

OPTIONS									
EMITTING COLOR					MOQ				
YELLOW	GREEN	RED	BLUE	WHITE	YELLOW	GREEN	RED	BLUE	WHITE
Y	Y	Y	-	-	N	Y	Y	-	-

INTERFACE PIN FUNCTION		
PIN NO.	SYMBOL	FUNCTION
1	V <sub>SS</sub>	Ground
2	V <sub>DD</sub>	Supply voltage for logic
3	NC	No connection
4	RS	H: Data; L: Instruction code
5	R $\bar{W}$	H: Read (MPU ← Module); L: Write (MPU → Module)
6	E	H → 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





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