LCD-016N002V2



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16 x 2 Character LCD



- Type: character
- Display format: 16 x 2 characters
- Built-in controller: ST7066 (or equivalent)
- Duty cycle: 1/16
- 5 x 8 dots includes cursor
- +5 V power supply
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

MECHANICAL DATA							
ITEM	STANDARD VALUE	UNIT					
Module dimension	69.0 x 29.2						
Viewing area	61.0 x 15.9						
Dot size	0.55 x 0.65						
Dot pitch	0.60 x 0.70	mm					
Mounting hole	n/a						
Character size	2.95 x 5.55						

ABSOLUTE MAXIMUM RATINGS										
ITEM	SYMBOL	STAN	UNIT							
	STIVIDUL	MIN.	TYP.	MAX.	UNIT					
Power supply	V_{DD} to V_{SS}	-0.3	-	7.0	v					
Input voltage	VI	-0.3	-	V _{DD}	v					
Mata										

Note

•
$$V_{SS} = 0 V, V_{DD} = 5.0 V$$

ELECTRICAL CHARACTERISTICS									
ITEM	SYMBOL	CONDITION	ST						
	STMBOL	CONDITION	MIN.	TYP. MAX.					
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	5.0	5.1	5.1 5.7				
Recommended LC driving voltage		0 °C	4.6	4.8	5.2				
for normal temperature	V_{DD} to V_0	25 °C	4.1	4.5	4.7	V			
version module		50 °C	3.9	4.2	4.5				
		70 °C	3.7	3.9	4.3				
LED forward voltage	V _F	25 °C	-	-	-	V			
LED forward current	I _F	25 °C	-	-	-	mA			
EL power supply current	I _{EL}	V _{EL} = 110 V _{AC} , 400 Hz	-	-	-	mA			

OPTION	S								
		PROCES	S COLOR				BACK	LIGHT	
TN	STN GRAY	STN YELLOW	STN BLUE	FSTN B&W	STN COLOR	NONE	LED	EL	CCFL
x	х	х	х	-	-	х	х	х	-

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

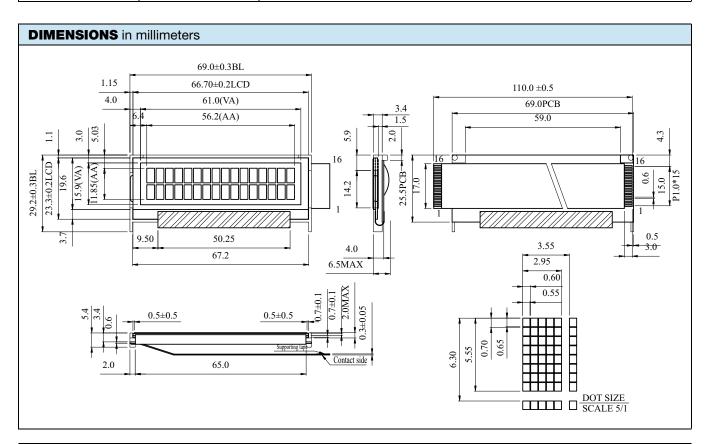


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DISPLAY CHARACTER ADDRESS CODE

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 FUNCTIONS							
PIN NO.	SYMBOL	FUNCTION					
1	V _{SS}	Ground					
2	V _{DD}	Supply voltage for logic					
3	Vo	Contrast adjustment					
4	RS	H: data, L: instruction					
5	R/W	H: read data, L: write data					
6	E	$H \rightarrow L$ enable signal					
7	DB0	Data bus line					
8	DB1	Data bus line					
9	DB2	Data bus line					
10	DB3	Data bus line					
11	DB4	Data bus line					
12	DB5	Data bus line					
13	DB6	Data bus line					
14	DB7	Data bus line					
15	A	LED +					
16	К	LED -					



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