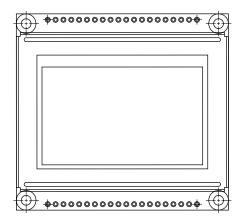
# LCD-128H064E



## 128 x 64 Graphic LCD



MECHANICAL DATA					
ITEM	STANDARD VALUE	UNIT			
Module dimension	54.0 x 50.0 x 7.5				
Viewing area	43.5 x 29.0				
Dot size	0.28 x 0.35				
Dot pitch	0.32 x 0.39	mm			
Mounting hole	49.0 x 45.0				
Character size	n/a				

#### **FEATURES**

- Type: graphic
- Display format: 128 x 64 dots and 4 icons
- Built-in controller: NT7107, NT7108
- Duty cycle: 1/64
- +5 V power supply
- EL backlight (built-in EL inverter)
- N.V. built-in
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

ABSOLUTE MAXIMUM RATINGS						
ITEM	SYMBOL	STAN	UNIT			
	STIVIDUL	MIN.	TYP.	MAX.		
Power supply	$V_{\text{DD}}$ to $V_{\text{SS}}$	2.8	5.0	5.5	v	
Input voltage	VI	-0.3	-	V <sub>DD</sub>	V	

Note

• V<sub>SS</sub> = 0 V, V<sub>DD</sub> = 5.0 V

ELECTRICAL CHARACTERISTICS							
ITEM	SYMBOL		STANDARD VALUE				
		CONDITION	MIN.	TYP.	MAX.	UNIT	
Input voltage	V <sub>DD</sub>	L level	0.7 V <sub>DD</sub>	-	V <sub>DD</sub>	V	
	V <sub>IO</sub>	H level	0	-	0.3 V <sub>DD</sub>		
Supply current	I <sub>DD</sub>	$V_{DD} = +5 V$	-	10.0	-	mA	
Recommended LC driving voltage for normal temperature version module	$V_{DD}$ to $V_0$	-20 °C	9.3	9.5	9.8		
		0 °C	9.1	9.3	9.6	V	
		25 °C	8.3	8.5	8.8		
		50 °C	7.2	7.3	7.8		
		70 °C	7.0	7.1	7.6		
EL power supply current	I <sub>EL</sub>	V <sub>EL</sub> = 110 V <sub>AC</sub> , 400 Hz	-	-	30.0	mA	

OPTIONS									
PROCESS COLOR					BACKLIGHT				
TN	STN GRAY	STN YELLOW	STN BLUE	FSTN B&W	STN COLOR	NONE	LED	EL	CCFL
-	х	х	-	х	-	х	-	x	-

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

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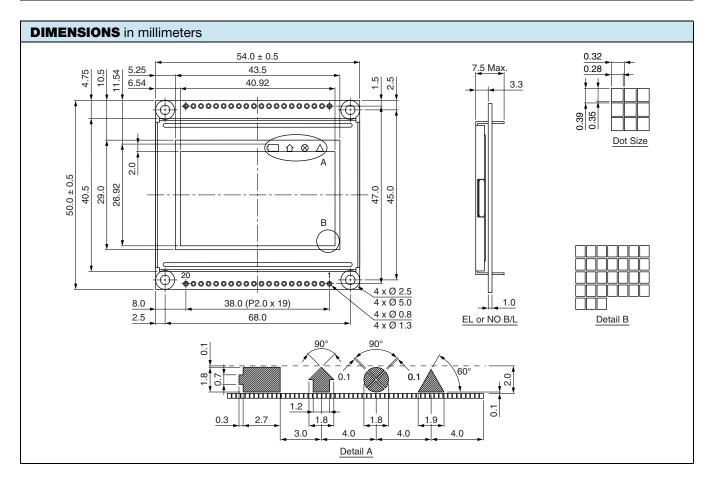
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## LCD-128H064E



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INTERFACE PIN FUNCTION					
PIN NO.	SYMBOL	FUNCTION			
1	V <sub>SS</sub>	Power supply (0 V)			
2	V <sub>DD</sub>	Power supply			
3	V <sub>0</sub>	Power supply for LCD driver			
4	D/Ī	Register selection input / H: data / L: instruction (write) / busy flag address counter (read)			
5	R/W	Data read / write			
6	E	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	CS1	Chip enable for D2 (segment 1 to 64)			
16	CS2	Chip enable for D3 (segment 65 to 128)			
17	RST	Reset signal			
18	V <sub>EE</sub>	Power supply for LCD driving			
19	BL+	Enable (on / off) for EL backlight			
20	BL-	No connection			



Document Number: 37333

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