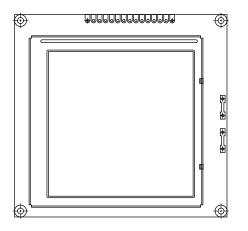




Vishay

160 x 160 Graphic LCD



MECHANICAL DATA				
ITEM	STANDARD VALUE			
Module Dimension	89.2 x 85.0			
Viewing Area	62.0 x 62.0			
Dot Size	0.34 x 0.34			
Dot Pitch	0.38 x 0.38	mm		
Mounting Hole	84.2 x 80.0			
Character Size	N/a			

FEATURES

- Type: Graphic
- Display format: 160 x 160 dots
- Built-in controller: None
- Duty cycle: 1/160
- + 5 V power supply
- Compliant to RoHS directive 2002/95/EC



ABSOLUTE MAXIMUM RATINGS						
ІТЕМ	SYMBOL	STAN	UNIT			
	STINIBOL	MIN.	TYP.	MAX.		
Power Supply	V_{DD} to V_{SS}	4.75	5.0	5.52	v	
Input Voltage	VI	0	-	V_{DD}		
Nete						

Note

• $V_{SS} = 0 V, V_{DD} = 5.0 V$

ELECTRICAL CHARACTERISTICS							
ITEM	0/4/201	CONDITION	STANDARD VALUE				
	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT	
	V _{DD}	L level	0.7 V _{DD}	-	V _{DD}	V	
Input Voltage	V _{IO}	H level	-	-	0.3 V _{DD}	V	
Supply Current	I _{DD}	V _{DD} = + 5 V	-	1.5	3.0	mA	
Recommended LC Driving Voltage for Normal Temperature Version Module	V_{DD} to V_0	- 20 °C	16.5	18.0	19.5		
		0 °C	16.3	17.8	19.3		
		25 °C	15.5	17.0	18.5	V	
		50 °C	14.5	16.0	17.5		
		70 °C	14.3	15.8	17.3		
LED Forward Voltage	V _F	25 °C	-	4.2	4.6	V	
LED Forward Current	lF	25 °C	-	500	1000	mA	
EL Power Supply Current	I _{EL}	V _{EL} = 110 V _{AC} , 400 Hz	-	-	5.0	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		х	х	х	

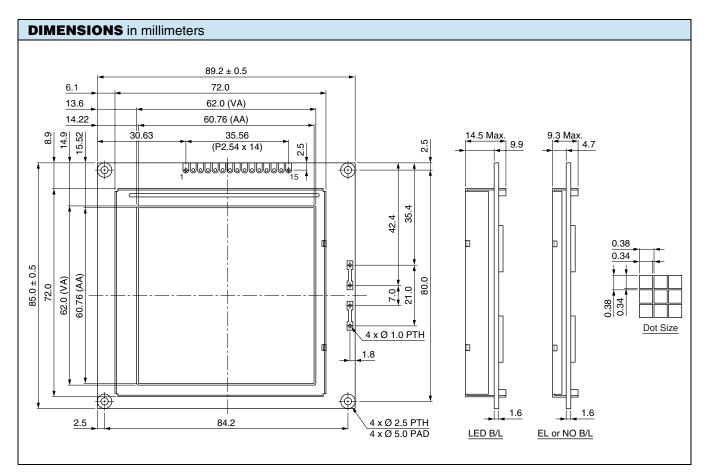
For detailed information, please see the "Product Numbering System" document.

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160 x 160 Graphic LCD

INTERFACE PIN FUNCTION					
PIN NO.	SYMBOL	FUNCTION			
1	V _{SS}	Ground			
2	М	Control signal for AC driving			
3	FLM	The FLM signal indicates the beginning of each display cycle			
4	CL1	The CL1 latches the serial data in shift register			
5	CL2	Clock signal for shifting the serial data			
6	DB3	Data bus line			
7	DB2	Data bus line			
8	DB1	Data bus line			
9	DB0	Data bus line			
10	V _{EE}	Power supply for LCD driving			
11	V _{DD}	Power supply (+ 5 V)			
12	V ₀	Contrast adjustment			
13	DISPOFF	Control display off; 0: Off/1: On			
14	A	Power supply for			
15	К	Power supply for			





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