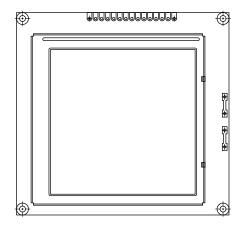




160 x 160 Graphic LCD



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



RoHS

MECHANICAL DATA					
ITEM	STANDARD VALUE	UNIT			
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				

ABSOLUTE MAXIMUM RATINGS						
ITEM	SYMBOL	STAN	UNIT			
IIEWI	STIVIBOL	MIN.	TYP.	MAX.	UNIT	
Power Supply	V_{DD} to V_{SS}	4.75	5.0	5.52	V	
Input Voltage	VI	0	-	V_{DD}	, v	

Note

• $V_{SS} = 0 \text{ V}, V_{DD} = 5.0 \text{ V}$

ELECTRICAL CHARACTERISTICS							
ITEM	OVMPOL	COMPITION	STANDARD VALUE				
ITEM	SYMBOL	CONDITION	MIN.	TYP.	MAX.	UNIT	
Large Mallaga	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	V	
		25 °C	15.5	17.0	18.5		
		50 °C	14.5	16.0	17.5	1	
		70 °C	14.3	15.8	17.3		
LED Forward Voltage	V _F	25 °C	-	4.2	4.6	V	
LED Forward Current	I _F	25 °C	-	500	1000	mA	
EL Power Supply Current	I _{EL}	V _{EL} = 110 V _{AC} , 400 Hz	-	-	5.0	mA	

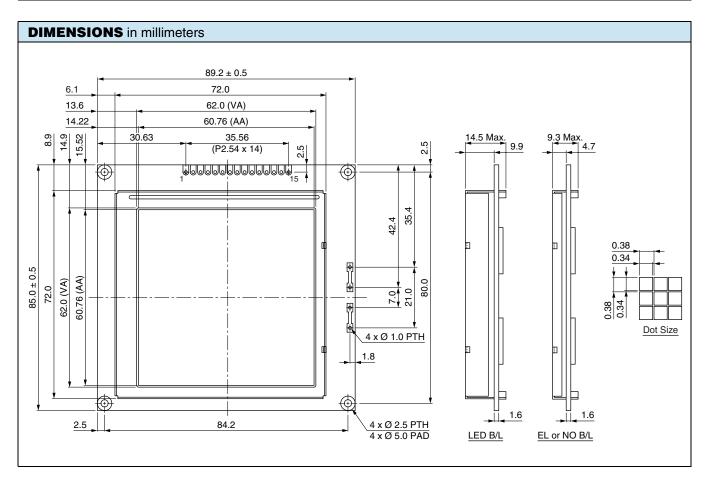
OPTION	OPTIONS								
	PROCESS COLOR				BACKLIGHT				
TN	STN Gray	STN Yellow	STN Blue	FSTN B&W	STN Color	None	LED	EL	CCFL
	х	х	х	х		х	х	х	

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

160 x 160 Graphic LCD



INTERFACE	INTERFACE PIN FUNCTION					
PIN NO.	SYMBOL	FUNCTION				
1	V _{SS}	Ground				
2	M	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	K	Power supply for				





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Vishay

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