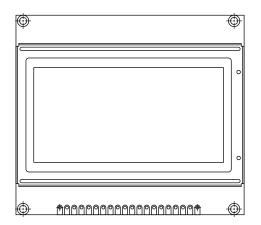


128 x 64 Graphic LCD



FEATURES

• Type: Graphic

• Display format: 128 x 64 dots



RoHS

Duty cycle: 1/64+ 5 V power supply

• N.V. option

 Material categorization: For definitions of compliance please see www.vishay.com/doc?99912

MECHANICAL DATA				
ITEM	STANDARD VALUE	UNIT		
Module Dimension	80.0 x 70.0			
Viewing Area	72.0 x 40.0			
Dot Size	0.48 x 0.48	mm		
Dot Pitch	0.52 x 0.52	- mm		
Mounting Hole	74.0 x 66.0			
Character Size	N/a			

ABSOLUTE MAX'IMUM RATINGS						
ITEM	SYMBOL	STAN				
I I EIVI	STIVIBUL	MIN.	TYP.	MAX.	UNIT	
Power Supply	V _{DD} to V _{SS}	4.75	5.0	5.25	V	
Input Voltage	VI	- 0.3	-	V_{DD}		

Note

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

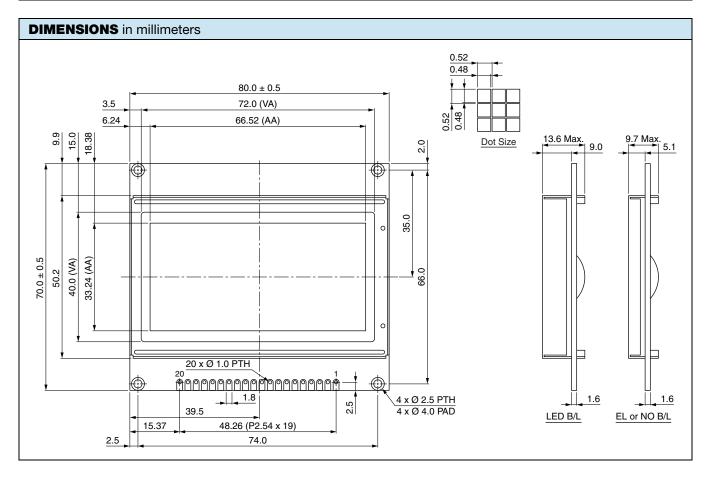
ELECTRICAL CHARACTERISTICS							
ITEM	SYMBOL	CONDITION	ST	STANDARD VALUE			
			MIN.	TYP.	MAX.	UNIT	
Lee I Weller	V_{DD}	L level	0.7 V _{DD}	-	V_{DD}	V	
Input Voltage	V_{IO}	H level	0	-	0.3 V _{DD}	V	
Supply Current	I _{DD}	$V_{DD} = + 5 V$	-	3.6	3.9	mA	
Recommended LC Driving	V _{DD} to V ₀	- 20 °C	9.9	10.4	10.9		
		0 °C	9.7	10.2	10.7	V	
Voltage for Normal Temperature		25 °C	8.9	9.4	9.9		
Version Module		50 °C	8.6	9.1	9.6		
		70 °C	8.4	8.9	9.4		
LED Forward Voltage	V _F	25 °C	-	4.2	4.6	V	
LED Forward Current	l _F	25 °C	-	330	660	mA	
EL Power Supply Current	I _{EL}	V _{EL} = 110 V _{AC} , 400 Hz	-	-	5.0	mA	

OPTIONS	OPTIONS								
PROCESS COLOR						BACK	LIGHT		
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.



INTERFACE PIN FUNCTION					
PIN NO.	SYMBOL	FUNCTION			
1	V _{SS}	Ground			
2	V _{DD}	Power supply (+ 5 V)			
3	V ₀	Contrast adjustment			
4	D/I	Data/instruction			
5	R/W	Data read/write			
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	CS1	Chip select for IC1			
16	CS2	Chip select for IC2			
17	RST	Reset			
18	V _{EE}	Negative voltage output			
19	A	Power supply for LED (+ 4.2 V), $R_A = 0 \Omega$			
20	К	Power supply for LED (0 V)			





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Vishay

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