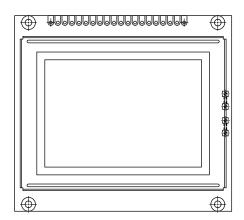
Vishay

128 x 64 Graphic LCD



FEATURES

• Type: graphic

• Display format: 128 x 64 dots

• Built-in controller: NT7107, NT7108

Duty cycle: 1/64+5 V power supply

• N.V. built-in

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



COMPLIANT

MECHANICAL DATA					
ITEM	STANDARD VALUE	UNIT			
Module dimension	78.0 x 70.0 x 14.3				
Viewing area	62.0 x 44.0				
Dot size	0.42 x 0.58	mm			
Dot pitch	0.44 x 0.60	mm			
Mounting hole	68.0 x 64.92				
Character size	n/a				

ABSOLUTE MAXIMUM RATINGS						
ITEM	SYMBOL	STAN	LINIT			
I I EIVI	STIVIBUL	MIN.	TYP.	MAX.	UNIT	
Power supply	V_{DD} to V_{SS}	4.5	5.0	5.5	V	
Input voltage	VI	- 0.3	-	V_{DD}	V	

Note

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

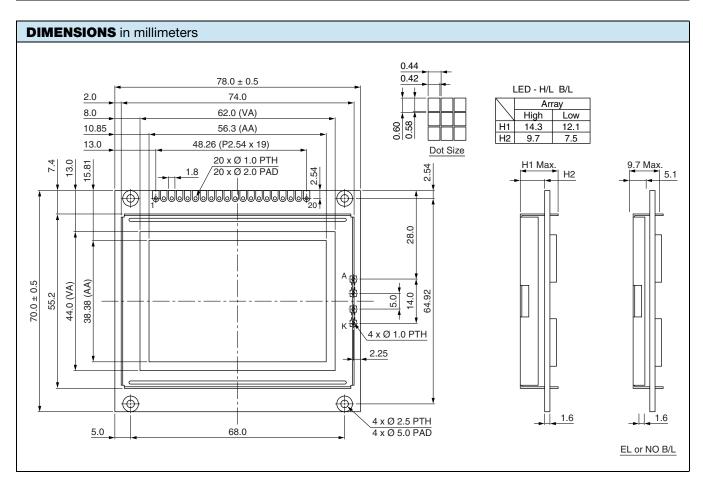
ELECTRICAL CHARACTERISTICS							
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT	
HEIM	STIVIDOL	CONDITION	MIN.	TYP.	MAX.	UNII	
land to alterna	V_{DD}	L level	0.7 V _{DD}	-	V_{DD}	V	
Input voltage	V_{IO}	H level	0	-	0.3 V _{DD}		
Supply current	I_{DD}	$V_{DD} = +5 \text{ V}$	-	3.5	-	mA	
Recommended LC driving voltage for normal temperature version module	V _{DD} to V ₀	-20 °C	9.6	10.1	10.6		
		0 °C	9.4	9.9	10.4	V	
		25 °C	9.4	9.6	10.4		
		50 °C	9.4	9.2	9.7		
		70 °C	9.2	9.0	9.5		
LED forward voltage	V _F	25 °C	-	4.2	4.6	V	
LED forward current - array hight		25 °C	-	480	960	mA	
LED forward current - array low	l _F	25 0	-	140	280		
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	-

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



INTERFACE PIN FUNCTION					
PIN NO.	SYMBOL	FUNCTION			
1	CS1	Chip select for IC1			
2	CS2	Chip select for IC2			
3	V _{SS}	Ground			
4	V _{DD}	Power supply (+5 V)			
5	V ₀	Contrast adjustment			
6	D/I	Data / instruction			
7	R/W	Data read / write			
8	E	H o L enable signal			
9	DB0	Data bus line			
10	DB1	Data bus line			
11	DB2	Data bus line			
12	DB3	Data bus line			
13	DB4	Data bus line			
14	DB5	Data bus line			
15	DB6	Data bus line			
16	DB7	Data bus line			
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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