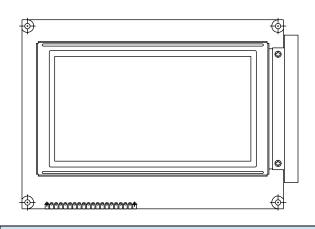


Vishay

240 x 128 Graphic LCD



MECHANICAL DATA

ITEM	STANDARD VALUE				
Module Dimension	144.0 x 104.0				
Viewing Area	114.0 x 64.0				
Dot Size	0.43 x 0.43	m m			
Dot Pitch	0.45 x 0.45	mm			
Mounting Hole	138.0 x 97.0				
Character Size	N/a				

FEATURES

- Type: Graphic
- Display format: 240 x 128 dots
- Built-in controller: Sanyo LC7981 (or equivalent)
- Duty cycle: 1/128
- + 5 V power supply
- Built-in N.V. (option)
- Compliant to RoHS directive 2002/95/EC

ABSOLUTE MAXIMUM RATINGS						
ITEM	SYMBOL	STAN				
	STMDUL	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}	v	

Note

• $V_{SS} = 0 V, V_{DD} = 5.0 V$

ELECTRICAL CHARACTERISTICS							
	0////201		STANDARD VALUE				
ITEM	SYMBOL	CONDITION	MIN. TYP. MAX		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	0	55	60	mA	
	V_{DD} to V_0	- 20 °C	-	-	-	v	
Recommended LC Driving		0 °C	20.3	21.4	22.5		
Voltage for Normal Temperature		25 °C	18.0	19.1	20.2		
Version Module		50 °C	17.8	18.9	20.0		
		70 °C	-	-	-		
LED Forward Voltage	V _F	25 °C	-	4.2	-	V	
LED Forward Current	I _F	25 °C	-	900	1800	mA	
CCFL Forward Voltage	V _F	25 °C	-	250	590	V _{RMS}	
CCFL Forward Current	I _F	25 °C	-	-	5.5	mA _{RMS}	
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	х

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



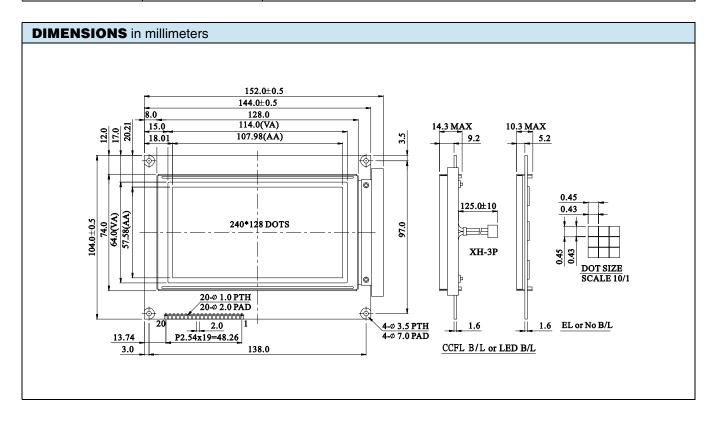
RoHS

COMPLIANT

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INTERFACE PIN FUNCTION					
PIN NO.	SYMBOL	FUNCTION			
1	V _{SS}	Power supply (Ground)			
2	V _{DD}	Power supply (+ 5 V)			
3	V ₀	Contrast adjustment			
4	RS	Data/instruction select			
5	RW	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	CS	Chip select			
16	RES	Reset signal			
17	V _{EE}	Negative voltage output			
18	NC	No connection			
19	A	Power supply for B/L			
20	К	Power supply for B/L			





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