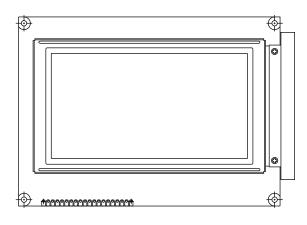
LCD-240H128B



240 x 128 Graphic LCD



MECHANICAL DATA				
ITEM	STANDARD VALUE	UNIT		
Module dimension	144.0 x 104.0			
Viewing area	114.0 x 64.0			
Dot size	0.40 x 0.40	mm		
Dot pitch	0.45 x 0.45	mm		
Mounting hole	138.0 x 99.0			
Character size	n/a			

FEATURES

- Type: graphic
- Display format: 240 x 128 dots
- Built-in controller: RA6963
- Duty cycle: 1/128
- Built-in N.V.
- Temperature compensation optional
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

ABSOLUTE MAXIMUM RATINGS						
ITEM	SYMBOL	STAN	UNIT			
	STIVIDUL	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							
ITEM	SYMBOL	CONDITION	ST	STANDARD VALUE			
		CONDITION	MIN.	TYP.	MAX.	UNIT	
Input voltage	V _{DD}	L level	0.7 V _{DD}	-	V _{DD}	V	
	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	-	-	-		
Recommended		0 °C	20.3	21.4	22.5	v	
LC driving 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	١ _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.

Revision: 22-Jun-17

1 For technical questions, contact: <u>displays@vishay.com</u> Document Number: 37377

Pb-free

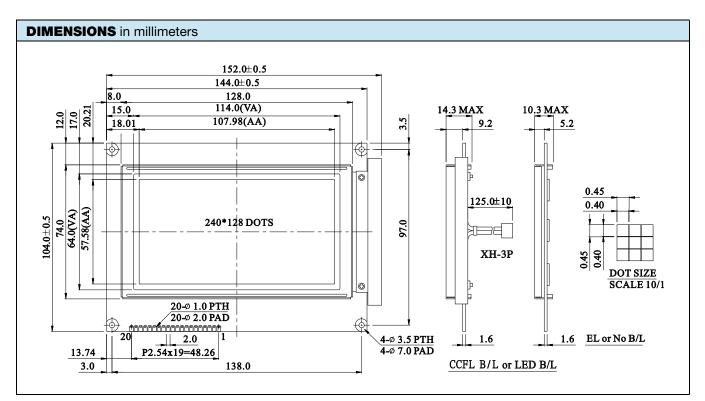
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RoHS COMPLIANT



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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	Power supply for LCD driving			
4	C / D	Command / data read / write			
5	RD	Data read			
6	WR	Data write			
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	CE	Chip enable			
16	RESET	Reset signal			
17	V _{EE}	Negative voltage output			
18	MD2	Control signal			
19	FS1	Font selection			
20	NC	No connection			





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