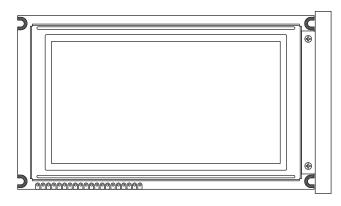
# LCD-240H128T



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## 240 x 128 Graphic LCD



MECHANICAL DATA				
ITEM	STANDARD VALUE	UNIT		
Module Dimension	140.0 x 82.0			
Viewing Area	114.0 x 64.0			
Dot Size	0.43 x 0.43	mm		
Dot Pitch	0.45 x 0.45			
Mounting Hole	137.0 x 74.5			

#### FEATURES

- Type: Graphic
- Display format: 240 x 128 dots
- Built-in controller: RA8806
- Duty cycle: 1/128
- + 5 V power supply (+ 3.3 V option)
- Built-in N.V.
- Chinese version
- Compliant to RoHS Directive 2002/95/EC

ABSOLUTE MAXIMUM RATINGS						
ITEM	SYMBOL	STAN	UNIT			
	STIVIDUL	MIN.	TYP.	MAX.	UNIT	
Power Supply	$V_{\text{DD}}$ to $V_{\text{SS}}$	4.75	5.0	5.25	v	
Input Voltage	VI	0.3	-	$V_{DD}$		

### Note

<sup>•</sup>  $V_{SS} = 0 \text{ V}, V_{DD} = 5.0 \text{ V}$ 

ELECTRICAL CHARACTERISTICS							
ITEM	CYMPOL	CONDITION	ST				
	SYMBOL	CONDITION	MIN.	TYP. MAX.		UNIT	
	V <sub>DD</sub>	L level	0.7 V <sub>DD</sub>	-	V <sub>DD</sub>	v	
Input Voltage	V <sub>IO</sub>	H level	-	-	0.3 V <sub>DD</sub>	v	
Supply Current	I <sub>DD</sub>	$V_{DD} = +5 V$	0	45	50	mA	
Recommended LC Driving Voltage for Normal Temperature Version Module		- 20 °C	-	-	-		
	$V_{DD}$ to $V_0$	0 °C	20.3	21.4	22.5		
		25 °C	18.0	19.2	20.2	V	
		50 °C	17.8	18.9	20.0		
		70 °C	-	-	-		
LED Forward Voltage	V <sub>F</sub>	25 °C	-	4.2	-	V	
LED Forward Current	I <sub>F</sub>	25 °C	-	920	1800	mA	
CCFL V <sub>F</sub>		25 °C	-	250	590		
CCFL	I <sub>F</sub>	25 °C	-	-	5.5		
EL Power Supply Current	I <sub>EL</sub>	V <sub>EL</sub> = 110 V <sub>AC</sub> , 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: 15-Jun-11

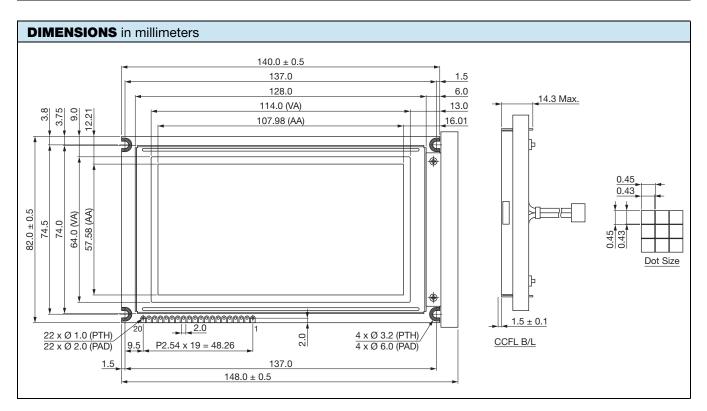




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INTERFACE PIN FUNCTION					
PIN NO.	SYMBOL	FUNCTION			
1	V <sub>SS</sub>	Ground			
2	V <sub>DD</sub>	Power supply for logic			
3	V <sub>0</sub>	Operating voltage LCD driving			
4	C/D	Command/data read/write			
5	RD	8080 family: read signal; 6800 family: enable signal			
6	WR	8080 family: write signal; 6800 family: read/write 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 <sub>EE</sub>	Negative voltage output			
18	Busy	RA8820 busy			
19	INT	Programable interrupt for 8802			
20	A	Power supply for B/L			



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2 For technical questions, contact: <u>displays@vishay.com</u> Document Number: 37401



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