LCD-240H128E

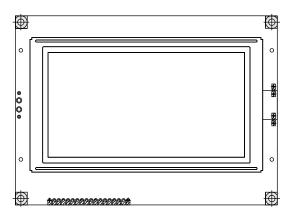


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RoHS

COMPLIANT





MECHANICAL DATA				
ITEM	STANDARD VALUE	UNIT		
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: RA6963
- Duty cycle: 1/128
- +5 V power supply
- Built-in N.V.
- 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.		
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 LC		0 °C	20.3	21.4	22.5	v	
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	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

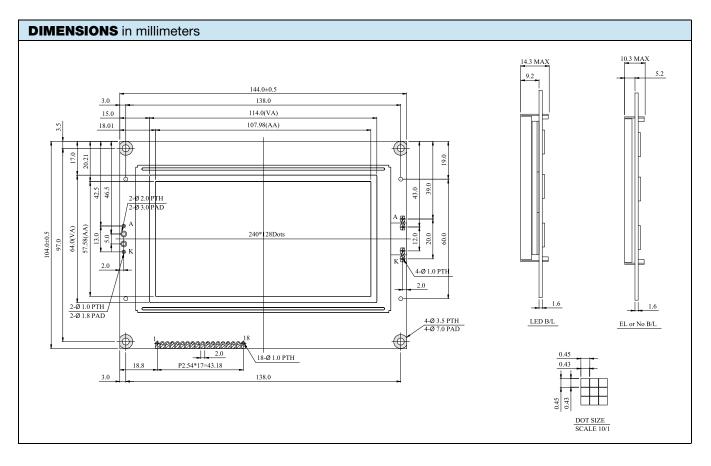
For detailed information, please see the "Product Numbering System" document.

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INTERFACE PIN FUNCTION						
PIN NO.	SYMBOL	FUNCTION				
1	V _{EE} / FG	Negative voltage output / frame ground				
2	V _{SS}	Ground				
3	V _{DD}	+5 V power supply				
4	V ₀	Scan start-up signal				
5	WR	Frame reverse signal (alternate signal)				
6	RD	Data latch pulse				
7	CE	Display enable signal				
8	C/D	Data shift pulse				
9	RST	Display data signal				
10	DB0	Data bus line				
11	DB1	Data bus line				
12	DB2	Data bus line				
13	DB3	Data bus line				
14	DB4	Data bus line				
15	DB5	Data bus line				
16	DB6	Data bus line				
17	DB7	Data bus line				
18	FS	Pins for selection of font; H: 6 x 8, L: 8 x 8				



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