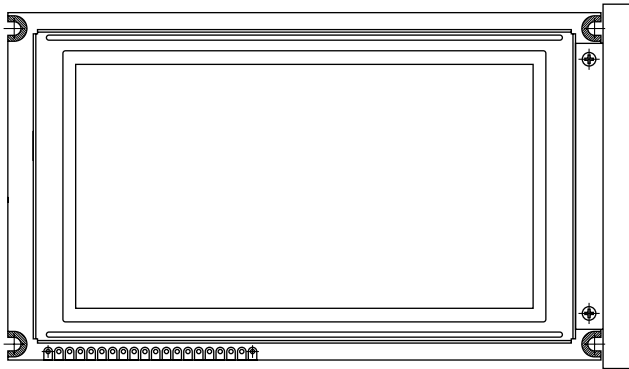


240 x 128 Graphic LCD



FEATURES

- Type: Graphic
- Display format: 240 x 128 dots
- Built-in controller: RA8820 (or equivalent)
- Duty cycle: 1/128
- + 5 V power supply (2.7 V to 5.0 V selective)
- Built-in N.V.
- Chinese version
- Controller RA8822 optional (LCD-240H128S)
- Compliant to RoHS directive 2002/95/EC


RoHS
COMPLIANT

MECHANICAL DATA

ITEM	STANDARD VALUE	UNIT
Module Dimension	140.0 x 82.0	mm
Viewing Area	114.0 x 64.0	
Dot Size	0.43 x 0.43	
Dot Pitch	0.45 x 0.45	
Mounting Hole	137.0 x 74.5	
Character Size	N/a	

ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	STANDARD VALUE			UNIT
		MIN.	TYP.	MAX.	
Power Supply	V_{DD} to V_{SS}	4.75	5.0	5.25	V
Input Voltage	V_I	0.3	-	V_{DD}	

Note

- $V_{SS} = 0$ V, $V_{DD} = 5.0$ V

ELECTRICAL CHARACTERISTICS

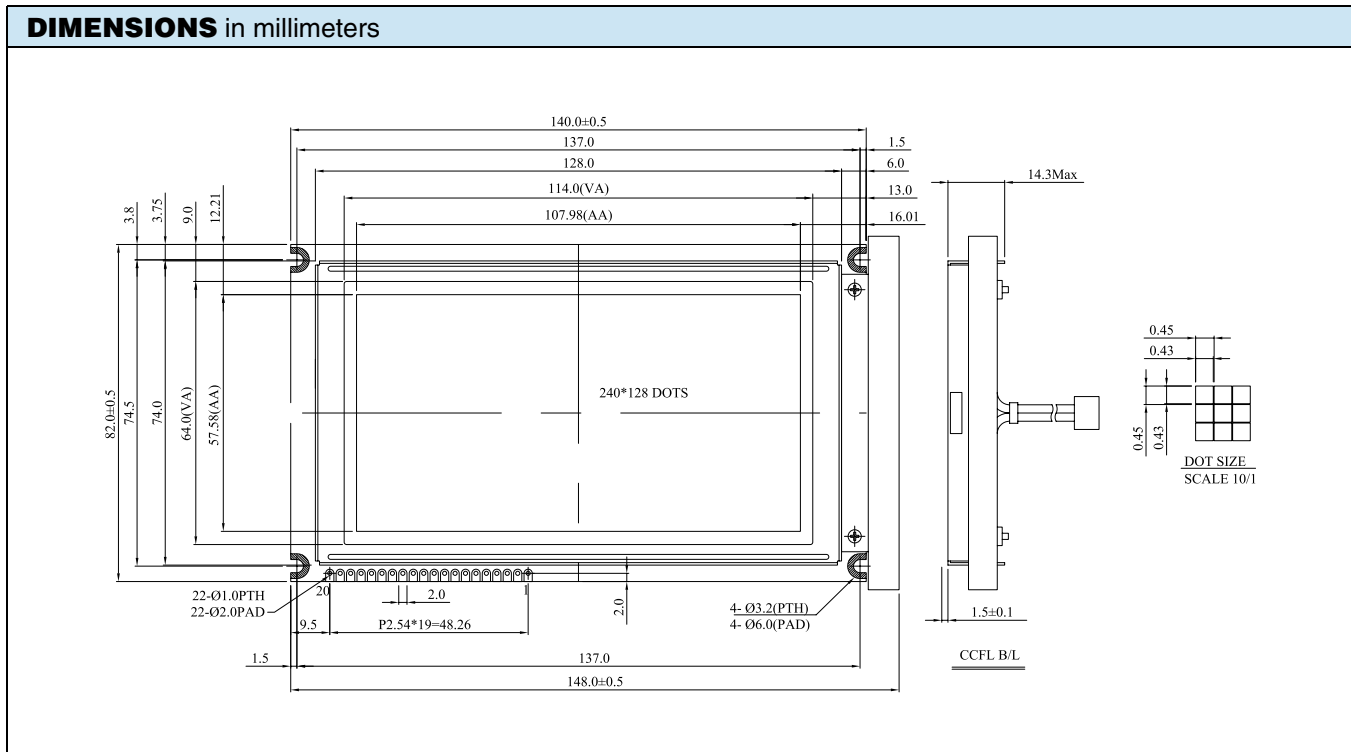
ITEM	SYMBOL	CONDITION	STANDARD VALUE			UNIT
			MIN.	TYP.	MAX.	
Input Voltage	V_{DD}	L level	$0.7 V_{DD}$	-	V_{DD}	V
	V_{IO}	H level	-	-	$0.3 V_{DD}$	
Supply Current	I_{DD}	$V_{DD} = +5$ V	0	45	50	mA
Recommended LC Driving Voltage for Normal Temperature Version Module	V_{DD} to V_0	- 20 °C	-	-	-	V
		0 °C	20.3	21.4	22.5	
		25 °C	18.0	19.2	20.2	
		50 °C	17.8	18.9	20.0	
LED Forward Voltage	V_F	25 °C	-	4.2	-	V
LED Forward Current	I_F	25 °C	-	920	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
	x	x	x	x		x	x	x	x

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

INTERFACE PIN FUNCTION		
PIN NO.	SYMBOL	FUNCTION
1	V _{SS}	Ground
2	V _{DD}	Power supply for logic
3	V ₀	Operating voltage LCD driving
4	C/D	Command/data read/write
5	R _D	8080 family: Read signal; 6800 family: Enable signal
6	W _R	8080 family: Write signal; 6800 family: R/W 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	C _S	Chip select
16	RES	Reset
17	V _{EE}	Negative voltage output
18	BUSY	RA8820 busy
19	INT	Programmable interrupt for 8802
20	A	Power supply for B/L





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