

Graphic122x32dots WG12232E/J

Dimension drawing 80.0 + 0.5 4.0 72.0 2-Ø2.5(NPTH) 0.49 10.2 P2.54 × 19=48.26 5.0 2.0 4 20-Ø1.0(PTH) 1.8 DOT SIZE SCALE 10/1 6.7 20 20.3 10.2 MAX 14.2 MAX A 15.64(AA) 18.0(VA) 7.0 15.0 28.0 36.0±0 K 53.64(AA) 6-Ø1.0(PTH) 11.18 60.0(VA) 8.0 2-Ø1.25(NPTH) 3.9 68.2 2.5 75.0 38.0 LED B/L EL or NO B/L

Graphic type

Feature

- 1. Available for External (E type), internal (J type) oscilation 2KHz
- 2. Epson-SED 1520,or equivalent
- 3. 1/32 duty cycle
- 4. N.V. optional for +3V power supply

Pin NO.	Symbol	Function				
1	Vss	GND				
2	Vdd	Power supply for logic				
3	Vo	Contrast Adjustment				
4	Ao	H→Data L→Instruction				
5	CS1	L→Chip1 Enable				
6	CS2	L→Chip2 Enable				
7	CL/NV	E type:External clock 2KHz J type:Negative Voltage Dption				
8	E/NC	E type:Enable Signal J type:No connection				
9	R/W	H: read data L: write data				
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	RES	H→L Reset the LCM				
19	A/Vee	+4.2V for LED/Negative Voltage output				
20	K	Power supply for B/L				

Mechanical Data

Item	Standard Value	Unit	
Module Dimension	80.0x36.0	mm	
Viewing Area	60.0x18.0	mm	
Mounting hole	75.0x28.0	mm	
Dot Pitch	0.44x0.49	mm	

Absolute Maximum Rating

	C	Standard Value			11-14	
Item	Symbol	min.	typ.	max.	Unit	
Power Supply	VDD-VSS	4.75	5	5.25	٧	
Input Voltage	VI	0		VDD	V	

Note: VSS=0 Volt, VDD=5.0 Volt.

Electronical Characteristics

Item	Symbol	Condition	Standard Value			
item			min.	typ.	max.	Unit
Input Voltage	VDD	VDD=+5V	4.5	5.0	5.5	٧
Supply Current	IDD	VDD=5V		1.0	1.4	mA
2 2322237	VDD-V0	-20°C	4.9	5.0	5.1	v
Recommended LC Driving Voltage for Normal Temp. Version module		0°C	4.7	4.8	4.9	
		25°C	4.6	4.7	4.8	
		50°C	4.3	4.4	4.7	
		70°C	4.1	4.2	4.5	
LED Forward Voltage	VF	25°C		4.2	4.6	٧
LED Forward Current	IF	25°C		120	240	mA
EL Power Supply Current	IEL	Vel=110VAC;400Hz			5.0	mA

