GU128X64E-U100

SIMPLIFIED DATASHEET

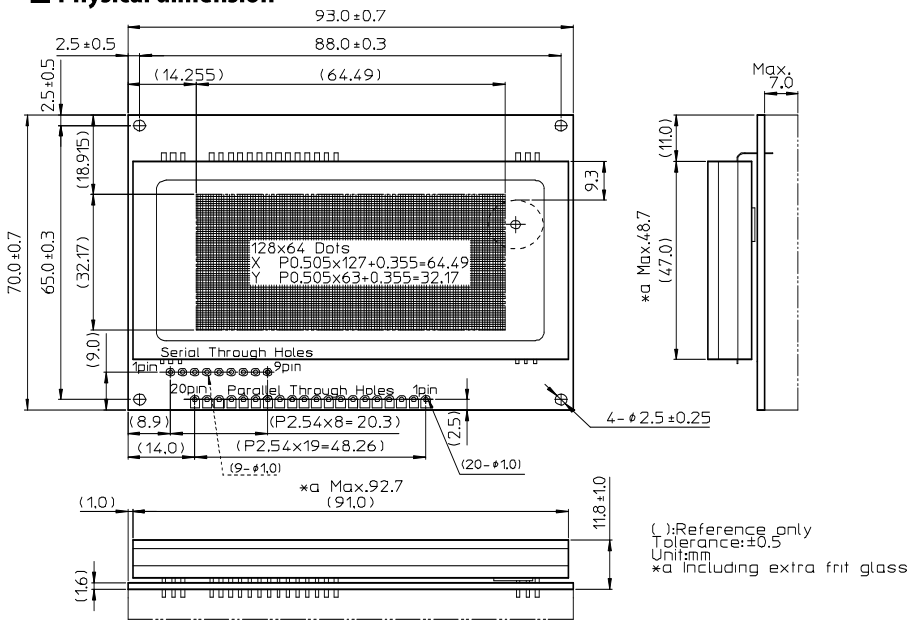
■ Features

128x64 dot LCD size compatible PCB, and LCD controller KS0107/KS0108 hardware emulation.
No need to change product case to switch from LCD to the better visibility and display functionality of VFD.

Get full specification

Click here to go to request form.

■ Physical dimension



Specifications

■ Electrical Ratings

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Power supply voltage	V_{CC}-V_{SS}	4.75	5.00	5.25	VDC	-

■ Electrical Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Logic Input Voltage	VIH	0.7VCC	-	VCC	VDC	-
	VIL	VSS	-	0.9	VDC	-
Logic Output Voltage	VOH	3.5	-	-	VDC	IOH=-0.2mA
	VOL	-	-	0.6	VDC	IOL=1.6mA
Power Supply Current 1	ICC1	-	550	720	mADC	All dots ON
Power Supply Current 2	ICC2	-	400	520	mADC	All dots OFF
Power Supply Current 3	ICC3	-	35	70	mADC	Display power OFF
Power Consumption		-	2.75	3.60	W	All dots ON

■ Optical Specifications

Parameter	
Luminance	350 cd/m^2 Min. (1,000 cd/m^2 Typ.)
Color of illumination	Green (Blue-Green)

■ Environmental Specifications

Parameter	
Operating Temperature	-40 ~ +85 degrees celsius
Storage Temperature	-40 ~ +85 degrees celsius
Operating Humidity	20 ~ 80% R.H. (non-condensing)
Vibration (non-operating)	10-55-10Hz, all amplitude 1mm, 30 minutes, X-Y-Z
Shock (non-operating)	539m/s^2 (55G) 9ms X-Y-Z, 3 times each direction

■ Physical Specifications

Parameter	
Number of Dots	8,192 (128 x 64)
Display Area	64.49 mm x 32.17 mm
Dot Size (X x Y)	0.355 mm x 0.355 mm
Dot Pitch (X x Y)	0.505 mm x 0.505 mm
Weight	Approximately 99 g

■ Interface

Parallel(CMOS), Synchronous Serial (CMOS, SPI)

■ Pin Assignment Parallel(Serial)

Pin No.	Signal	Pin No.	Signal
1	VSS	11	DB4
2	VCC	12	DB5
3	NC	13	DB6
4	RS	14	DB7
5	RW	15	CS1
6	E	16	CS2
7	DB0	17	RST
8	DB1	18	NC
9	DB2	19	NC
10	DB3	20	NC

	(Serial : Type1)	(Type2)	(Type3)
Pin No.	Signal	Signal	Signal
1	VCC	VCC	VCC
2	SI/SO	SO	IC
3	VSS	VSS	VSS
4	CS	IC	RS
5	SCK	SCK	SCK
6	RST	RST	RST
7	IC	CS2	CS2
8	IC	CS1	CS1
9	IC	SI	SI

■ Functions

Parameter
Graphic display
8 level brightness control
Power save mode
KS0107/KS0108 hardware emulation
etc.

RoHS COMPLIANT

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