

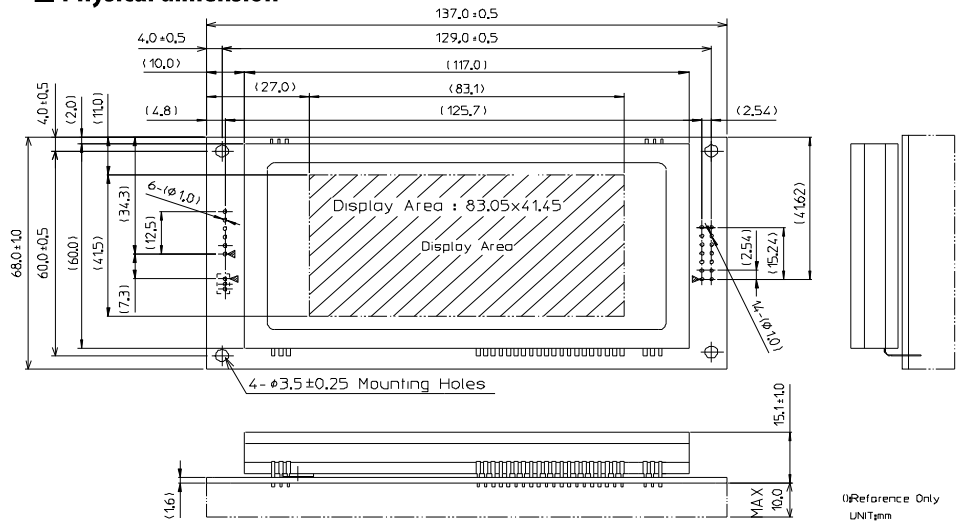
# GU128X64F-7003

## SIMPLIFIED DATASHEET

### ■ Features

Over twice the display area of GU128X64D. Large illuminating dot surface for better visibility. Suitable for where the display is to be read from some distance.

### ■ Physical dimension



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### Specifications

#### ■ Electrical Ratings

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Power supply voltage	VCC	4.75	5.00	5.25	VDC	-

#### ■ Electrical Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
'L' Logic Input Current SIN,SCK/RESET	IIL2	-	-	-0.6	mA	VIN=0V
'H' Logic Input Current SIN,SCK/RESET	IiH	-	-	1.0	μA	VIN=5V
Logic Input Voltage SIN,SCK/RESET	VIH	0.8VCC	-	VCC	VDC	-
	VIL	0	-	0.2VCC	VDC	-
Logic Output Voltage SBUSY	VOH	3.8	-	VCC	VDC	IOH=-1.5mA
	VOL	0	-	0.6	VDC	IOL=1.6mA
Power Supply Current 1	ICC-1	-	1.0	1.2	ADC	All dots ON
Power Supply Current 2	ICC-2	-	0.75	0.9	ADC	All dots OFF
Power Supply Current 3	ICC-3	-	22	27	ADC	Display power OFF
Power Consumption		-	5.0	6.0	W	All dots ON

#### ■ Optical Specifications

Parameter	Value
Number of Dots	8,192 (128 x 64)
Character numbers	18 x 8 / Max21 x 8 by 5 x 7 dot ANK
Display Area	83.1 mm x 41.5 mm
Dot Size (X x Y)	0.50 mm x 0.50 mm
Dot Pitch (X x Y)	0.65 mm x 0.65 mm
Luminance	500 cd/m <sup>2</sup> Min. (1000 cd/m <sup>2</sup> Typ.)
Color of illumination	Green (Blue-Green)

#### ■ Environmental Specifications

Parameter	Value
Operating Temperature	-40 ~ +85 degrees celsius
Storage Temperature	-40 ~ +85 degrees celsius
Operating Humidity	20 ~ 80% R.H. (non-condensing)
Storage Humidity	20 ~ 80% R.H. (non-condensing)
Vibration (non-operating)	10-55-10Hz, all amplitude 1mm, 30 minutes, X-Y-Z
Shock (non-operating)	392m/s <sup>2</sup> (40G) 9ms X-Y-Z, 3 times each direction

#### ■ Character display

Parameter	Value
Number of Dots	128 x 64 dots
Character font type	5 x 7 ANK, International font
Character width	Fixed/Proportional character format 1&2
Attribution	Character magnify, Reverse
Weight	About 183 g

#### ■ Interface

Sync/Asynchronous Serial (CMOS)

#### ■ Pin Assignment ( Synchronous Serial)

Pin No.	Signal
1	Vcc
2	SIN
3	GND
4	SBUSY
5	SCK
6	/RESET

(Asynchronous Serial)

Pin No.	Signal	Baud Rate Setting
1	Vcc	9600bps
2	SIN	19200bps
3	GND	38400bps*
4	SBUSY	115200bps
5	NC	(*:Default setting)
6	/RESET	

#### ■ Functions

Parameter	Value
Control command	
Scroll display action	
Proportional Font function	
User-Windows function	
AND/OR/XOR Mixture display	
Reverse display	
Bit image display	
Character download function	
etc.	

