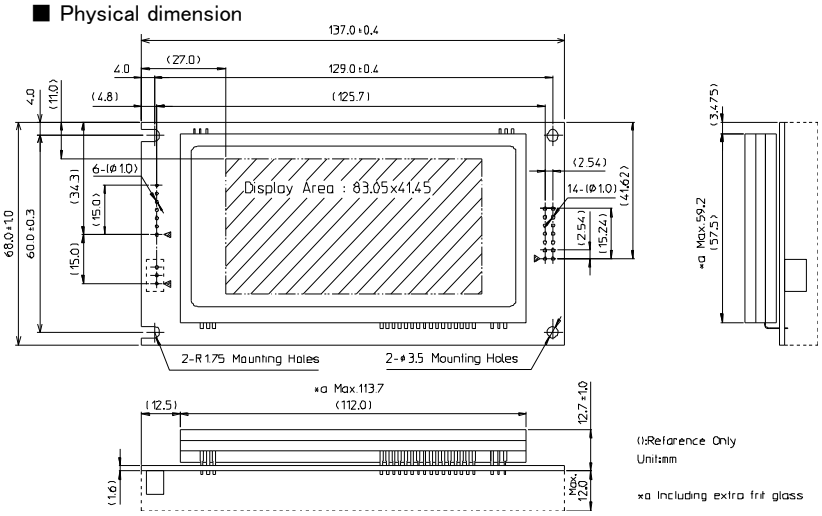
GU128X64F-7900BX

SIMPLIFIED DATASHEET

■ Features

128x64 dots high brightness model.

■ Physical dimension



Specifications

■ Electrical Ratings

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

■ Electrical Characteristics

#1: Brightness 200% #2: Brightness 100%

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
'L' Logic Input Current						
D0-D7,/WR,/RD	IIL1	–	–	-0.15	mA	VIN=0V
/RESET	IIL2	–	–	-0.6	mA	VIN=0V
'H' Logic Input Current						
D0-D7,/WR,/RD,/RESET	IIH	–	–	1.0	μADC	VIN=5V
Logic Input Voltage	VIH	0.8VCC	–	VCC	VDC	–
D0-D7,/WR,/RD,/RESET	VIL	0	–	0.2VCC	VDC	–
Logic Output Voltage	VOH	3.8	–	VCC	VDC	IOH=-1.5mA
D7(Busy flag), PBUSY	VOL	0	–	0.6	VDC	IOL=1.6mA
Logic input resistance						
SIN	RIN	3	–	–	KΩ	–
Logic Input Voltage	VIH	3.0	–	+15	VDC	–
SIN	VIL	-15	–	0.5	VDC	–
Logic Output Voltage	VOH	4.0	–	VCC	VDC	RL=3KΩ
SBUSY	VOL	0	–	0.5	VDC	RL=3KΩ
Power Supply Current 1 #1	ICC-1	–	1.3	1.7	ADC	All dots ON
Power Supply Current 2 #2	ICC-2	–	0.7	0.9	ADC	All dots ON
Power Supply Current 3 #1	ICC-3	–	0.7	0.9	ADC	All dots OFF
Power Supply Current 4 #2	ICC-4	–	0.5	0.7	ADC	All dots OFF
Power Supply Current 5	ICC-5	–	23	30	mADC	Display power OFF
Power Consumption #1		–	6.5	8.5	W	All dots ON
Power Consumption #2		–	3.5	4.5	W	All dots ON

■ Optical Specifications

#1: Brightness 200% #2: Brightness 100%

Parameter	
Luminance	500 cd/m^2 Min. (#1: 2000 cd/m^2 Typ. #2 : 1000cd/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)
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^2 (40G) 9ms X-Y-Z, 3 times each direction

■ Physical Specifications

Parameter	
Number of Dots	8,192 (128 x 64)
Display Area	83.05 mm x 41.45 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
Weight	About 151 g

■ Interface

Parallel(CMOS), Asynchronous Serial (RS232)

■ Pin Assignment (Parallel)

Pin No.	Signal	Pin No.	Signal
1	GND	2	VCC
3	NC	4	RS
5	/WR	6	/RD
7	D0	8	D1
9	D2	10	D3
11	D4	12	D5
13	D6	14	D7(PBUSY)

(Asynchronous Serial)

Pin No.	Signal
1	VCC
2	SIN
3	GND
4	SBUSY
5	NC
6	/RESET
7	NC

Baud Rate Setting
9600bps
19200bps
38400bps*
115200bps
(*:Default setting)

■Selectable Font

Parameter		h
Character font type	5 x 7	ANK, International
	8 x 16	ANK, International
	16 x 16	2-byte character
Character width	Fixed/Proportional character format 1&2	
Character numbers	18 x 8 by 5 x 7 dot ASCII	
	21 x 8 by 5 x 7 dot Proportional	
	8 x 4 16 x16 dot 2-byte character	

■ Functions

Parameter
Control command
Scroll display action
Proportional Font function
User-Windows function
AND/OR/XOR Mixture display
Reverse display
Dot unit real-time bit image display
FROM bit image definition
Download character function
Font Magnification function
etc.

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