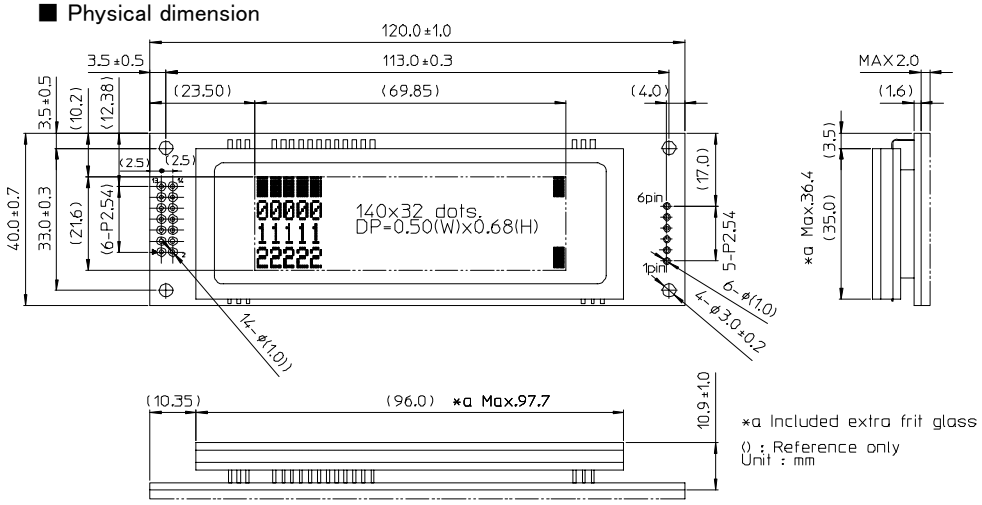
GU140X32F-7064B

SIMPLIFIED DATASHEET

■ Features

4 line simultaneous display capable wide screen VFD module. This item is narrow PWB and side mounting hole type 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

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
'L' Logic Input Current						
SIN, SCK, /CS, /RESET	IIL	–	–	−0.6	mA	VIN=0V
'H' Logic Input Current						
SIN, SCK, /CS, /RESET	IIH	–	–	1.0	μADC	VIN=5V
Logic Input Voltage	VIH	0.8VCC	–	VCC	VDC	–
SIN, SCK, /CS, /RESET	VIL	0	–	0.2VCC	VDC	–
Logic Output Voltage	VOH	3.8	–	VCC	VDC	IOH=−1.5mA
SBUSY	VOL	0	–	0.6	VDC	IOL=1.6mA
Power Supply Current 1	ICC-1	–	370	480	mADC	All dots ON
Power Supply Current 2	ICC-2	–	310	400	mADC	All dots OFF
Power Supply Current 3	ICC-3	–	18	30	mADC	Display power OFF
Power Consumption		–	1.85	2.40	W	All dots ON

■ Optical Specifications

Parameter	
Luminance	350 cd/m^2 Min. (700 cd/m^2 Typ.)
Color of illumination	Green (Blue-Green)

■ Environmental Specifications

Parameter	
Operating Temperature	−40 ~ +85 degrees celsius
Storage Temperature	−60 ~ +85 degrees (Under 168 hours)/−40 ~ +85 degrees (Or more)
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/s2 (40G) 9ms X-Y-Z, 3 times each direction

■ Physical Specifications

Parameter	
Number of Dots	4,480 (140 x 32)
Display Area	69.85 mm x 21.60 mm
Dot Size (X x Y)	0.35 mm x 0.53 mm
Dot Pitch (X x Y)	0.50 mm x 0.68 mm
Weight	About 57 g

■ Interface

Sync/Asynchronous Serial, SPI(CMOS)

■ Pin Assignment (Parallel)

(Synchronous)

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

(SPI)

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

(Asynchronous)

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		*ANK(Alphabet, Numeric, Kana)
Character font type	5 x 7	ANK, International
Character width	Fixed/Proportional character format 1&2	
Character numbers	20 x 4 by 5 x 7 dot ASCII	
	23 x 4 by 5 x 7 dot Proportional	

■ 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
Download character function
Font Magnification function
etc.

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