

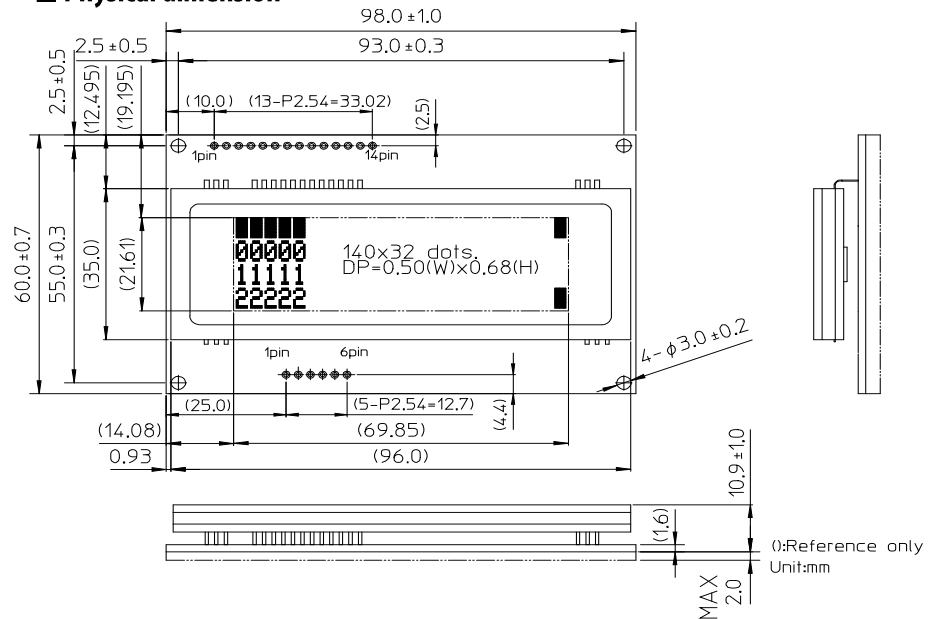
GU140X32F-7032

SIMPLIFIED DATASHEET

■ Features

4 line simultaneous display capable wide screen VFD module. Same size and shape as LCD, for easy drop-in replacement. 3.3V power model.

■ Physical dimension



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Specifications

■ Electrical Ratings

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Power supply voltage	VCC	3.1	3.3	3.5	VDC	-

■ Electrical Characteristics

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
'L' Logic Input Current D0-D7 /WR/RD	IIL1	-	-	0.15	mA	VIN=0V
SIN,SCK/RESET	IIL2	-	-	0.6	mA	VIN=0V
'H' Logic Input Current D0-D7 /WR/RD,SIN,SCK /RESET	IIN	-	-	1.0	uADC	-
Logic Input Voltage D0-D7 /WR/RD,SIN, /RESET	VIH	0.8VCC	-	VCC	VDC	-
	VIL	0	-	0.2VCC	VDC	-
SCK	VIH	0.9VCC	-	VCC	VDC	-
	VIL	0	-	0.1VCC	VDC	-
Logic Output Voltage D7(Busy flag), PBUSY, SBUSY	VOH	2.5	-	VCC	VDC	IOH=-0.1mA
	VOL	0	-	0.4	VDC	IOL=0.4mA
Power Supply Current 1	ICC-1	-	600	780	mADC	All dots ON
Power Supply Current 2	ICC-2	-	480	620	mADC	All dots OFF
Power Supply Current 3	ICC-3	-	20	26	mADC	Display power OFF
Power Consumption	-	-	1.98	2.574	W	All dots ON

■ Optical Specifications

Parameter	Value
Number of Dots	4,480 (140 x 32)
Character numbers	20 x 4 / Max23 x 4 by 5 x 7 dot ANK
Display Area	69.85mm x 21.61 mm
Dot Size (X x Y)	0.35 mm x 0.53 mm
Dot Pitch (X x Y)	0.5 mm x 0.68 mm
Luminance	350 cd/m ² Min. (700 cd/m ² 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 ² (40G) 9ms X-Y-Z, 3 times each direction

■ Character display

Parameter	Value
Number of Dots	140 x 32 dots
Character font type	5 x 7 ANK, International font
Character width	Fixed/Proportional character format 1&2
Attribution	Character magnify, Reverse
Weight	About 64 g

■ Interface

Parallel(CMOS), Sync/Asynchronous Serial (CMOS)

■ Pin Assignment (Parallel)

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

(Sync/Asynchronous Serial)

Pin No.	Signal	Baud Rate Setting
1	Vcc	9600bps
2	SIN	19200bps
3	GND	38400bps*
4	SBUSY	115200bps
5	SCK/ 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.	



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