

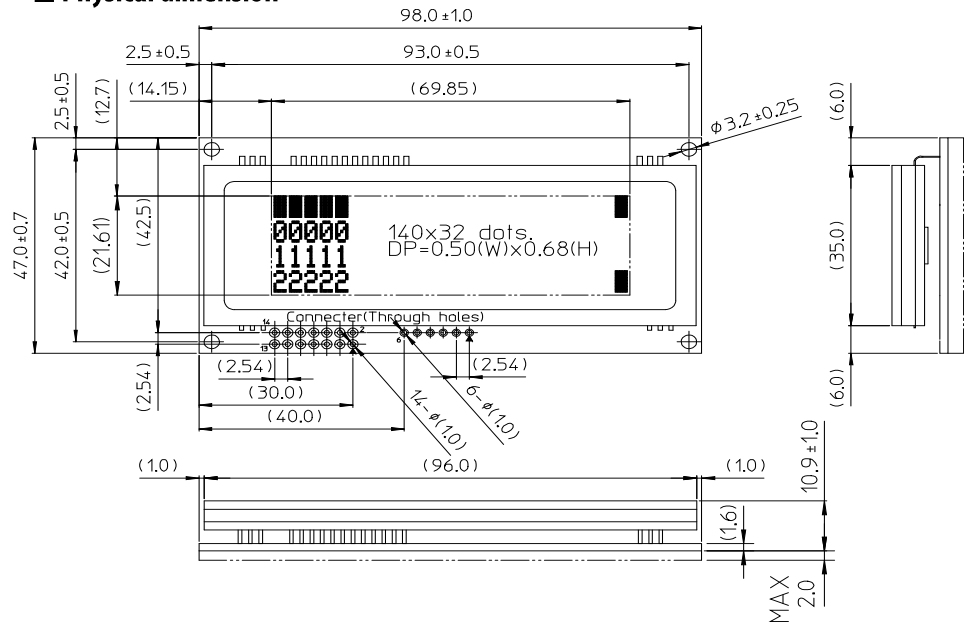
GU140X32F-7050

SIMPLIFIED DATASHEET

Features

4 line simultaneous display capable wide screen VFD module. Same size and shape as LCD, for easy drop-in replacement. Reduced-size PCB slim-type model.

Physical dimension



Get full specification



Click here to go to request form.

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	IIL1	-	-	-0.15	mA	VIN=0V
D0-D7,/WR,/RD /RESET	IIL2	-	-	-0.6	mA	VIN=0V
'H' Logic Input Current	IIH	-	-	1.0	μADC	VIN=5V
D0-D7,/WR,/RD,/RESET	VIH	0.8VCC	-	VCC	VDC	-
Logic Input Voltage	VIL	0	-	0.2VCC	VDC	-
D0-D7,/WR,/RD,/RESET	VOH	3.8	-	VCC	VDC	IOH=-1.5mA
Logic Output Voltage	VOL	0	-	0.6	VDC	IOL=1.6mA
D7(Busy flag), PBUSY	RIN	3	-	-	KΩ	-
Logic input resistance	VIH	3.0	-	+15	VDC	-
SIN	VIL	-15	-	0.5	VDC	-
Logic Input Voltage	VOH	4.0	-	VCC	VDC	RL=3KΩ
Logic Output Voltage	VOL	0	-	0.5	VDC	RL=3KΩ
SBUSY	ICC-1	-	400	520	mADC	All dots ON
Power Supply Current 1	ICC-2	-	330	430	mADC	All dots OFF
Power Supply Current 2	ICC-3	-	35	45	mADC	Display power OFF
Power Supply Current 3		-	2.0	2.6	W	All dots ON
Power Consumption						

Optical Specifications

Parameter	
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	
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	
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 57 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	Baud Rate Setting
1	Vcc	9600bps
2	SIN	19200bps
3	GND	38400bps*
4	SBUSY	115200bps
5	NC	(*:Default setting)
6	/RESET	

Functions

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

