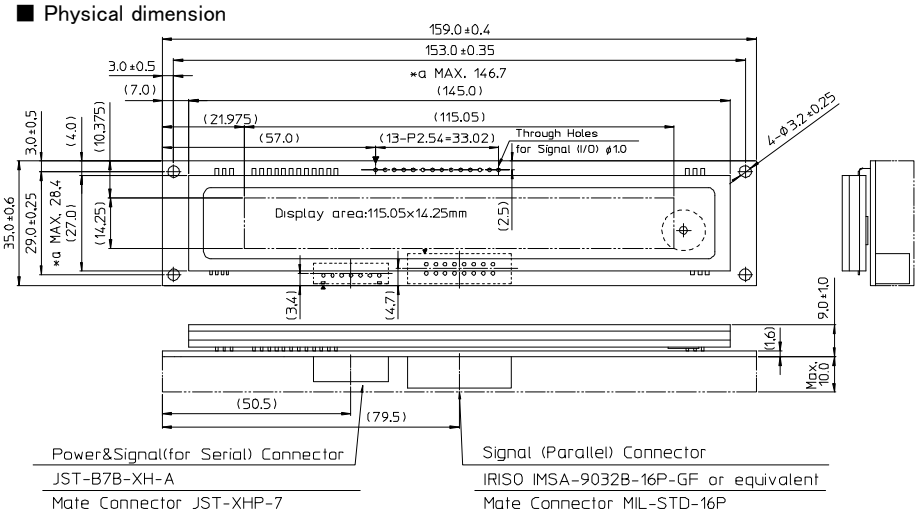
GU256X32D-3900B

SIMPLIFIED DATASHEET

■ Features

Mid-sized VFD. 32 dots vertically, to accomodate a wide variety of display content, including special characters, images, or graphic information.

■ Physical dimension



( ):Reference only
Unit:mm
*a Including extra frit glass

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
Parallel IF						
Logic input current	IpIH	–	–	1.0	μADC	–
D0-D7,/WR	IpIL	–	–	-200	μADC	–
Logic input voltage	VpIH	0.8VCC	–	VCC	VDC	–
D0-D7,/WR	VpIL	0	–	0.2VCC	VDC	–
Logic output voltage	VpOH	3.5	–	VCC	VDC	IOH=-10μA
RDY	VpOL	0	–	0.6	VDC	IOL=4mA
RS-232 I/F						
Logic input voltage	VsIH	3	–	15	VDC	–
RXD, DSR	VsIL	-15	–	-3	VDC	–
Logic output voltage	VsOH	5	–	–	VDC	RL=3KΩ
RXD, DSR	VsOL	–	–	-5	VDC	
Logic input Impedance						
RXD, DSR	RsIN	3	–	7	KΩ	–
General-purpose I/O port						Abbreviation
Power Supply Current 1	ICC1	–	450	600	mADC	All dots ON
Power Supply Current 2	ICC2	–	350	450	mADC	All dots OFF
Power Supply Current 3	ICC3	–	80	120	mADC	Display power OFF
Power Consumption		–	2.25	3.00	W	All dots ON

■ Optical Specifications

Parameter	
Luminance	350 cd/m^2 Min. (600 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)
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	8,192 (256 x 32)
Display Area	115.05 mm x 14.25 mm
Dot Size (X x Y)	0.3 mm x 0.3 mm
Dot Pitch (X x Y)	0.45 mm x 0.45 mm
Weight	About 73 g

■ Interface

Parallel(CMOS), Asynchronous Serial (RS232), I/O port

■ Pin Assignment

Pin No.	Signal	Pin No.	Signal
1	D7	2	D6
3	D5	4	D4
5	D3	6	D2
7	D1	8	D0
9	GND	10	/WR
11	GND	12	RDY
13	GND	14	GND
15	VCC	16	VCC

(Asynchronous Serial)

Pin No.	Signal	Baud Rate Setting
1	RXD	4800bps
2	DTR	9600bps
3	DSR	19200bps
4	TXD	38400bps*
5	TEST	57600bps
6	VCC	115200bps
7	GND	(*:Default setting)

(General-purpose I/O port:Abbreviation)

■Selectable Font

Parameter	*ANK(Alphabet, Numeric, Kana)
ANK	All Font Size
International	6 x 8 / 8 x 16 / 12 x 24 / 16 x 32 dot
2-byte character	16 x 16 dot
Japanese	32 x 32 dot
Character numbers	42 x 4 by 6 x 8 dot ASCII
	21 x 1 by 12 x 24 dot ASCII
	16 x 2 by 16 x 16 dot 2-byte character
	8 x 1 by 32 x 32 dot Japanese

■ Functions

Parameter	
Variable Character display	Variable Action Commands
Scroll function	Line / BOX Draw
Display Power Auto ON/OFF	AND/OR/XOR Mixture display
User Windows function	Program Macro function
I/O Port Control Function	Graphic DMA mode
Bit image by dot	
Variable stored settings	
etc.	

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