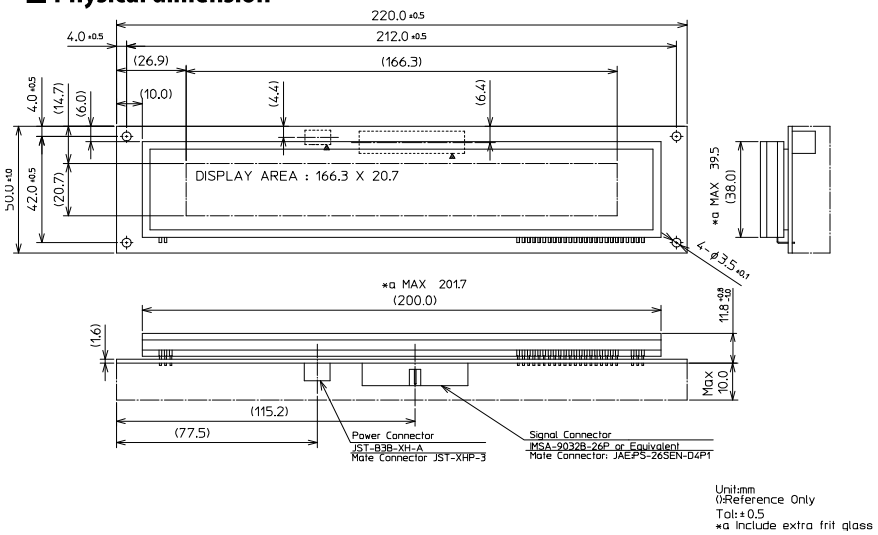
GU256X32-800B

SIMPLIFIED DATASHEET

■ Features

256x32 dot VFD module.
Non built-in font type.

■ 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
Logic Input Voltage						
H	VIH	4.0	-	-	VDC	IIH=2 μA
L	VIL	-	-	1.0		IRL=-600 μA
Logic Output Voltage						
H	VOH	4.7	-	-	VDC	IOH=-300 μA
L	VOL	-	-	0.3		IOL= 300 μA
Reset Input Voltage						
H	VRH	4.0	-	-	VDC	IRH= 5 μA
L	VRL	-	-	0.6	VDC	IRL=-600 μA
Power Supply Current	ICC	-	750	900	mA	All dots ON
		-	600	750		All dots OFF
Power Consumption		-	3.75	4.5	W	All dots ON

■ Optical Characteristics

Parameter	
Luminance	250 cd/m^2 Min.
Color of illumination	Green (Blue-Green)

■ Environmental Conditions

Parameter	
Operating Temperature	-40 ~ +85 degrees celsius
Storage Temperature	-40 ~ +85 degrees celsius
Operating Humidity	20 ~ 80% R.H. (non-condensing)
Vibration (Non operation)	10-55-10Hz, all amplitude 1mm, 30 minutes, X-Y-Z
Shock (non-operating)	539m/s^2 (55G) 10ms

■ Physical Specifications

Parameter	
Number of Dots	8,192 (256×32)
Display Area	166.25 mm x 20.65 mm
Dot Size (X x Y)	0.5 mm x 0.5 mm
Dot Pitch (X x Y)	0.65 mm x 0.65 mm

■ Interface

Parallel(CMOS), Synchronous Serial (CMOS)

■ Pin Assignment (Signal)

Pin No.	Description Parallel #1	Parallel #2	Serial	Pin No.	Description All
1	D7	D7	NC	2	GND
3	D6	D6	NC	4	GND
5	D5	D5	NC	6	GND
7	D4	D4	NC	8	GND
9	D3	D3	NC	10	GND
11	D2	D2	NC	12	GND
13	D1	D1	TXD	14	GND
15	D0	D0	RXD	16	GND
17	WR	R/W	NC	18	GND
19	C/D	C/D	C/D	20	GND
21	RD	ENCK	SCK	22	GND
23	CSS	CSS	CSS	24	GND
25	FRP	FRP	FRP	26	RESET

(Power)

Pin No.	Signal
1	VCC
2	Test
3	GND

■Built-in Character

None

■ Functions

Parameter
High-speed interface
Control command
2 Graphic Layers support
Scroll function
AND/OR/EXOR
etc.

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