

20x2 Character OLED module



PROFILE

- Type: Passive character
- Display Color: Monochrome (White)
- Display format: 20 x 2 characters
- Duty cycle: 1/16
- +3.3V power supply
- Controller IC: SSD1311 or equivalent
- Interface: Parallel, SPI, I²C

FEATURES

NO.	ITEM	SPECIFICATION	UNIT
1	Panel Size	2.93	inch
2	Outline Dimension	92.30(W) x 23.30(H) x 5.96(T)	mm
3	Viewing Area	75.52 x 13.52	mm
4	Active Area	73.52 x 11.52	mm
5	Number of Characters	20 × 2	-
6	Dot Size	0.62(W) × 0.67(H)	mm
7	Dot Pitch	0.65(W) × 0.70(H)	
8	Character Size	3.22(W) × 5.57(H)	mm
9	Character Pitch	3.70(W) x 5.95(H)	
10	Display Mode	Passive character	-
11	Viewing Direction	All	
12	Display Color	White/Yellow	-
13	Interface	Parallel, SPI, I ² C	-
14	Drive IC	SSD1311	-
15	Operation Temperature	-40~80	°C
16	Storage Temperature	-40~85	°C



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ABSOLUTE MAXIMUM RATINGS

ITEM	SYMBOL	MIN	MAX	UNIT
Supply Voltage for Logic	V _{DD}	-0.3	3.6	V
Operating Temperature	T _{OP}	-40	80	°C
Storage Temperature	T _{STG}	-40	85	°C
Life Time (80 cd/m ²)		30,000	-	hour

ELECTRICAL CHARACTERISTICS

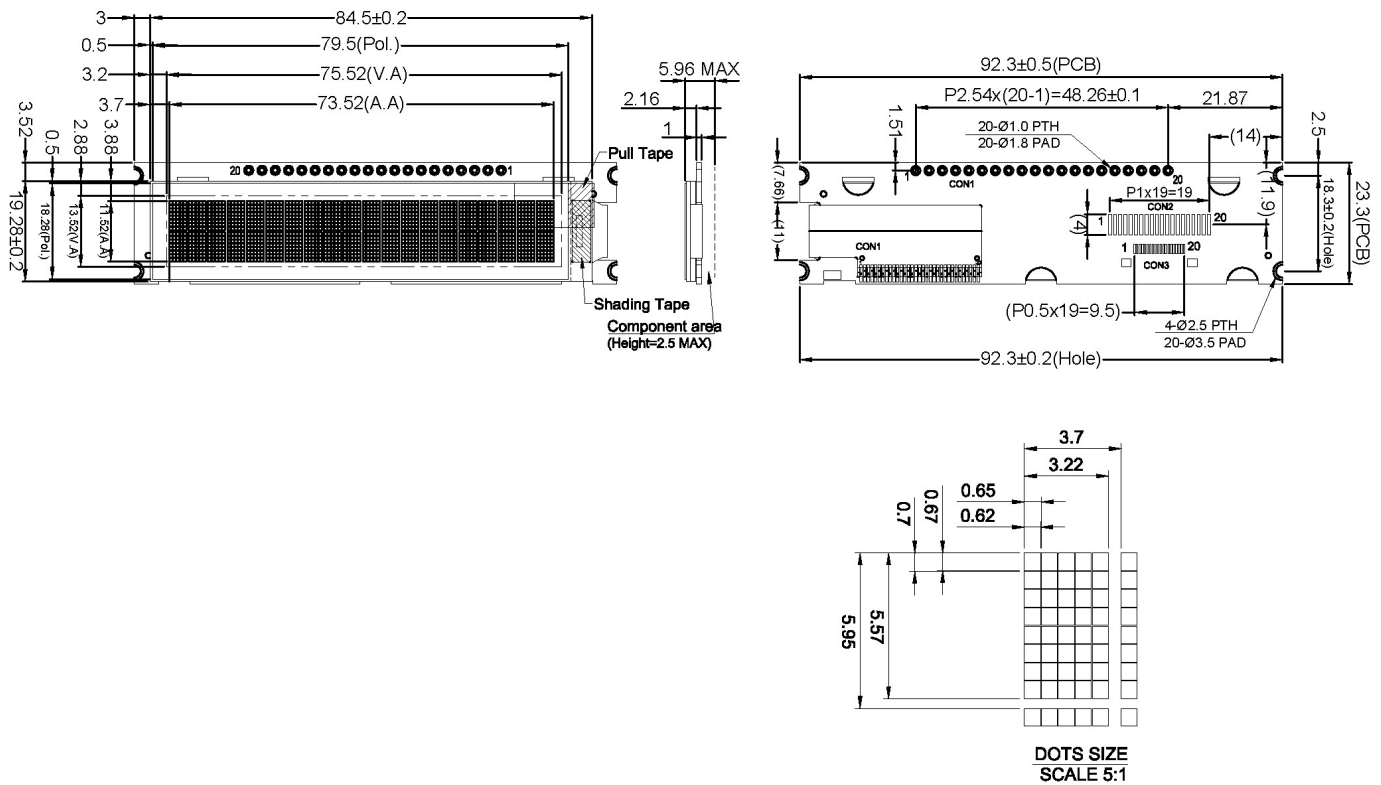
ITEM	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Supply Voltage for Logic	V _{DD}		2.8	3.3	3.6	V
High Level Input	V _{IH}	I _{OUT} =100μA, 3.3MHz	0.8xV _{DD}	-	V _{DD}	V
Low Level Input	V _{IL}	I _{OUT} =100μA, 3.3MHz	0	-	0.2xV _{DD}	V
High Level Output	V _{OH}	I _{OUT} =100μA, 3.3MHz	0.8xV _{DD}	-	V _{DD}	V
Low Level Output	V _{OL}	I _{OUT} =100μA, 3.3MHz	0	-	0.2xV _{DD}	V
50% Check Board Operating Current for V _{DD}	I _{DD}	V _{DD} =3.3V	-	100	200	mA

For detailed information, please refer to the “Product Numbering System” document.

PIN DESCRIPTION FOR OLED MODULE

NO.	SYMBOL	FUNCTION
1	V _{SS}	Ground of Logic Circuit
2	V _{DD}	Power Supply for Logic
3	REGVDD	Low voltage I/O application
4	D/C#	Data/Command control pin
5	R/W#	Read/write signal
6	E	Chip enable signal
7	DB0	H/L data bus line
8	DB1	H/L data bus line
9	DB2	H/L data bus line
10	DB3	H/L data bus line
11	DB4	H/L data bus line
12	DB5	H/L data bus line
13	DB6	H/L data bus line
14	DB7	H/L data bus line
15	CS#	Chip select
16	RES#	Power Reset for Controller and Driver
17	BS0	Bus Interface selection
18	BS1	
19	BS2	
20	V _{SS}	Ground of Logic Circuit

DIMENSIONS in millimeters



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