



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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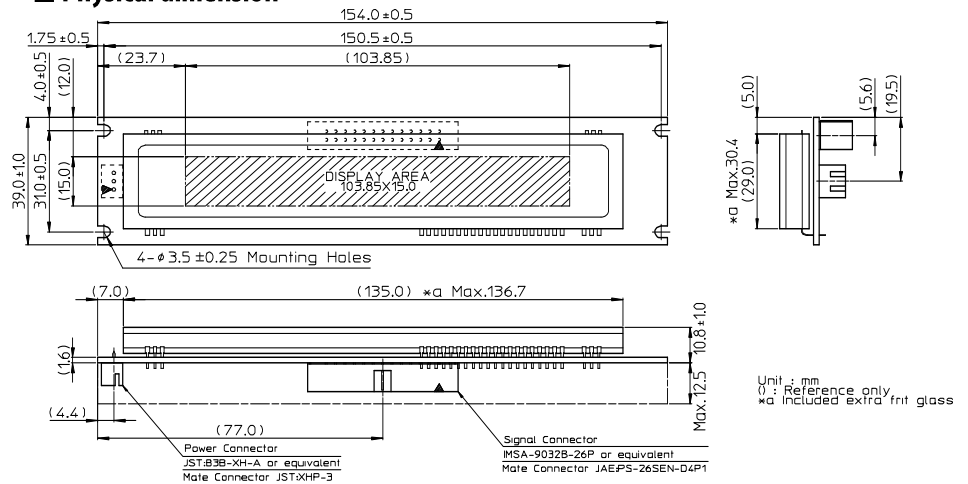
GU160X16-800B

SIMPLIFIED DATASHEET

Features

160x16 dot size VFD module.

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 | I _{IH} =2 μA |
| L | VIL | - | - | 1.0 | VDC | I _{IL} =-600 μA |
| Logic Output Voltage | | | | | | |
| H | VOH | 4.7 | - | - | VDC | I _{OH} =-300 μA |
| L | VOL | - | - | 0.3 | VDC | I _{OL} =300 μA |
| Reset Input Voltage | | | | | | |
| H | VRH | 4.0 | - | - | VDC | I _{RH} =5 μA |
| L | VRL | - | - | 0.6 | VDC | I _{RL} =-600 μA |
| Power Supply Current | ICC | - | 550 | 700 | mA | All dots ON |
| | | - | 450 | 600 | mA | All dots OFF |
| Power Consumption | | - | 2.75 | 3.5 | W | All dots ON |

Optical Characteristics

| Parameter | Value |
|-----------------------|----------------------------|
| Luminance | 350 cd/m ² Min. |
| Color of illumination | Green (Blue-Green) |

Environmental Conditions

| Parameter | Value |
|---------------------------|--|
| 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 | Value |
|-------------------|---------------------|
| Number of Dots | 2,560 (160 x 16) |
| Display Area | 103.85 mm x 15.0 mm |
| Dot Size (X x Y) | 0.50 mm x 0.75 mm |
| Dot Pitch (X x Y) | 0.65 mm x 0.95 mm |

Interface

Parallel (CMOS), Synchronous Serial (CMOS)

Pin Assignment (Signal)

| Pin No. | Description | | | Pin No. | Description |
|---------|-------------|-------------|--------|---------|-------------|
| | Parallel #1 | Parallel #2 | Serial | | 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 | Value |
|--------------------------|-------|
| High-speed interface | |
| Control command | |
| 2 Graphic Layers support | |
| Scroll function | |
| AND/OR/EXOR | |
| etc. | |



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Please confirm product details in the specification.

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