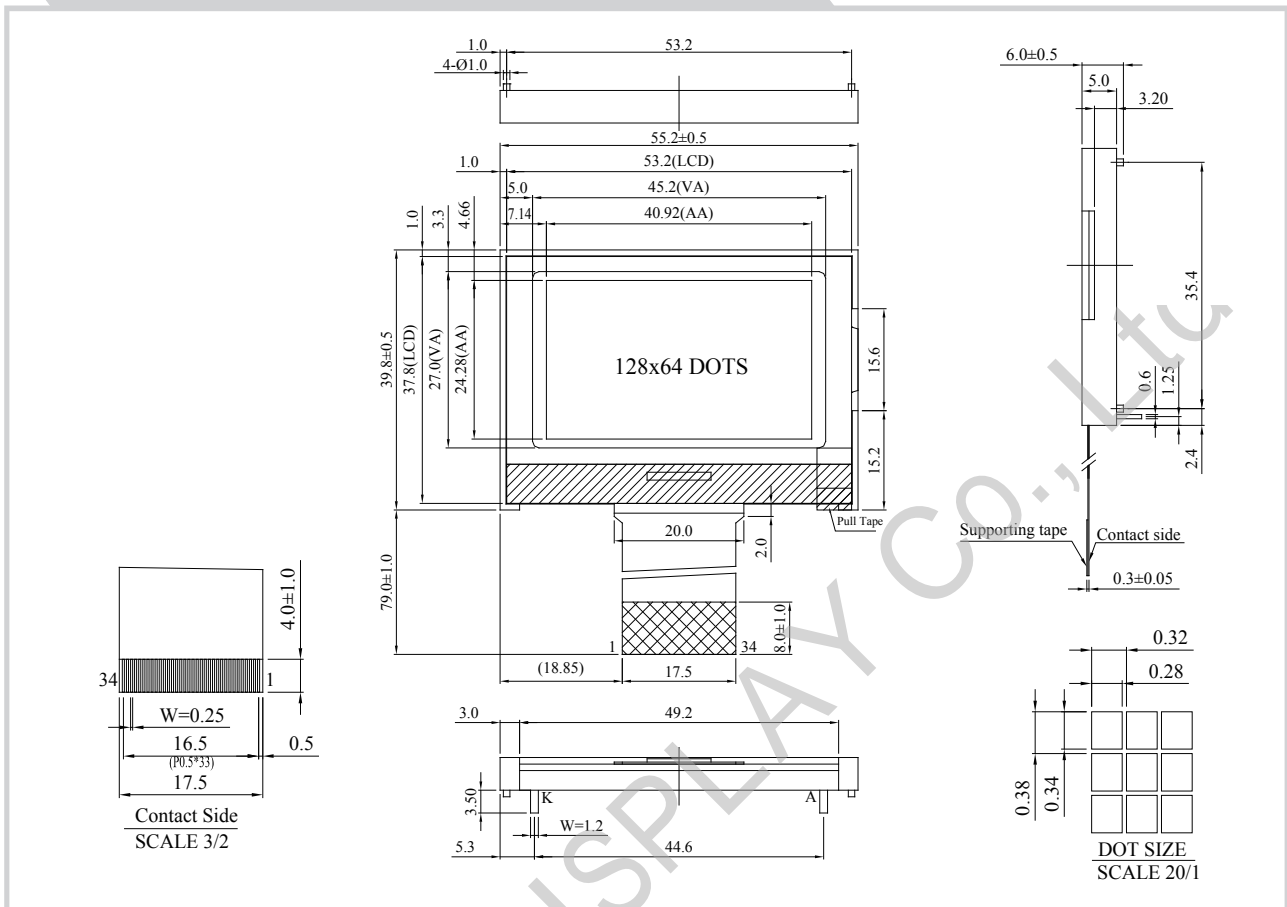


## WO12864C2 Character 128x64



### Feature

1. Built-in controller (ST7565P or equivalent)
2. 3.3V power supply
3. 1/64 duty cycle

| Pin No. | Symbol          | Description   |
|---------|-----------------|---|
| 1       | IRS             | Selects the resistors for the V0 voltage level adjustment                                 |
| 2       | /HPM            | Control power supply for LCD "H": Normal mode, "L": High power mode                       |
| 3       | P/S             | Selects the interface type: Serial or Parallel.   |
| 4       | C86             | Interface selection 6800/8080   |
| 5       | VR              | LCD Contrast Adjustment when IRS = "L"  |
| 6~10    | V0~V4           | Bias voltage levels for LCD driving   |
| 11      | VRS             | This is the internal-output VREG power supply for the LCD power supply voltage regulator. |
| 12      | CAP4+           | DC/DC voltage converter.  |
| 13      | CAP2-           | DC/DC voltage converter.  |
| 14      | CAP2+           | DC/DC voltage converter.  |
| 15      | CAP1+           | #/N/A   |
| 16      | CAP1-           | DC/DC voltage converter.  |
| 17      | CAP3+           | DC/DC voltage converter.  |
| 18      | CAP5+           | DC/DC voltage converter   |
| 19      | Vout            | Positive Voltage output   |
| 20      | V <sub>SS</sub> | Ground  |
| 21      | V <sub>DD</sub> | Power supply for logic  |
| 22~29   | D7~D0           | #/N/A   |
| 30      | /RD(E)          | 8080 family: Read signal, 6800 family: Enable clock                                       |
| 31      | /WR(RW)         | 8080 family: Write signal, 6800 family: Read/Write signal                                 |
| 32      | A0              | Data/ Instruction select signal   |
| 33      | /RES            | Controller reset signal, Active Low   |
| 34      | /CS1            | This is the chip select signal.   |

### Mechanical Data

| Item             | Standard Value | Unit |
|------------------|----------------|------|
| Module Dimension | 55.2 x 39.8    | mm   |
| Viewing Area     | 45.2 x 27.0    | mm   |
| Dot Pitch        | 0.32 x 0.38    | mm   |
| Dot Size         | 0.28 x 0.34    | mm   |

### Electrical Characteristics

| Item  | Symbol | Standard Value | Unit |
|---|--------|----------------|------|
|   |        | typ.           |      |
| Input Voltage   | VDD    | 3.0            | V    |
| Recommended LCD Driving Voltage for Normal Temp. Version module @25°C | Vo-Vss | 9.60           | V    |