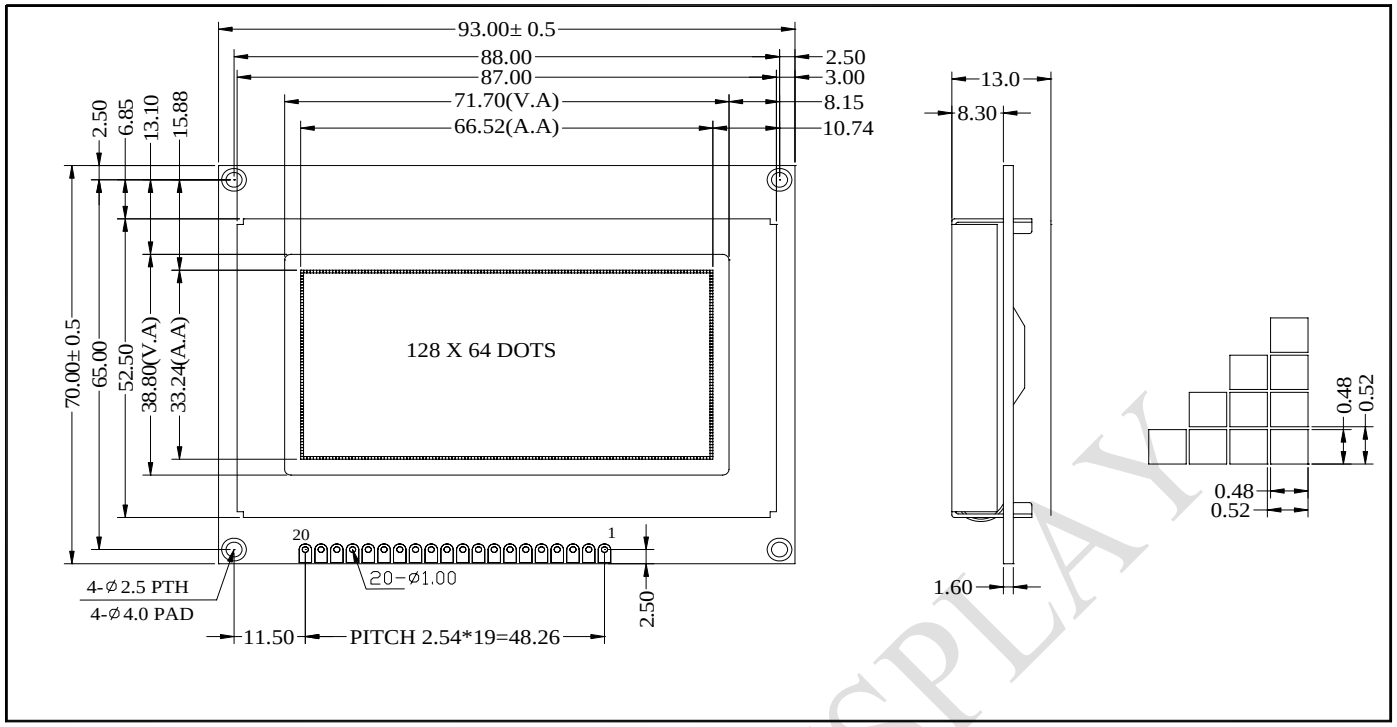
# HGO128647 1/64DUTY 1/9BIAS




**PIN CONNECTIONS**

| Pin | Symbol | Level | Function |
|---|---|---|---|
| 1 | $V_{SS}$ | 0V | GND |
| 2 | $V_{DD}$ | +3.3V | Power supply for logic |
| 3 | NC | - | No connection |
| 4 | A0 | H/L | H: data; L: Instruction |
| 5 | R/W | H/L | 68:H: read; L: write<br>80: write |
| 6 | E | H/L | 68:Chip enable signal<br>80: read |
| 7<br>\|<br>14 | DB0<br>\|<br>DB7 | H/L | Data bus line<br>Serial mode: D7—SI<br>D6—SCL. |
| 15 | /CS | L | Chip selection |
| 16 | NC | - | No connection |
| 17 | /RES | L | Reset signal ,active “L” |
| 18 | NC | - | No connection |
| 19 | LEDA | +3.3V | Power supply for LED backlight |
| 20 | LEDK | 0V | |

*NOTES:*

1. 3.3V power supply optional
2. Built-in controller
3. Low power supply
4. 6800/8080 Parallel interface or serial interface optional

**MECHANICAL DATA**

| Item | Nominal Dimensions | Unit |
|---|---|---|
| Module Size（W x H x T） | 93.0X70.0X13.0 | mm |
| Viewing Area (W x H ) | 70.7X38.8 | mm |
| Dot Pitch (W x H ) | 0.52X0.52 | mm |
| Dot Size (W x H ) | 0.48X0.48 | mm |

**ABSOLUTE MAXIMUM RATINGS**

| Item | Symbol | Min. | Max. | Unit |
|---|---|---|---|---|
| Supply Voltage (Logic) | $V_{DD}$-$V_{SS}$ | -0.3 | 7.0 | V |
| Supply Voltage (LCD) | $V_0$-$V_{SS}$ | -0.3 | 15.0 | V |
| Input Voltage | $V_I$ | -0.3 | $V_{DD}$+0.3 | V |
| Operating Temp. | $T_{OPR}$ | -20 | 70 | ℃ |
| Storage Temp. | $T_{STG}$ | -30 | 80 | ℃ |

**ELECTRICAL CHARACTERISTICS ( $V_{DD}$=3.0V, Ta=25℃ )**

| Item | Symbol | Min. | Typ. | Max. | Unit |
|---|---|---|---|---|---|
| Input High Voltage | $V_{IH}$ | 0.7$V_{DD}$ | - | $V_{DD}$ | V |
| Input Low Voltage | $V_{IL}$ | $V_{SS}$ | - | 0.3$V_{DD}$ | V |
| Output High Voltage | $V_{OH}$ | 0.7$V_{DD}$ | - | $V_{DD}$ | V |
| Output Low Voltage | $V_{OL}$ | $V_{SS}$ | - | 0.3$V_{DD}$ | V |
| Supply Current | $I_{DD}$ | - | 250 | - | uA |
| LCD Driving Voltage | $V_0$-$V_{SS}$ | - | 10 | - | V |

**LED BACKLIGHT SPECIFICATIONS ( Ta=25℃ )**

| Item | Forward Voltage | Forward Current |
|---|---|---|
| BLUE | 3.1V | 45mA |
| White | 3.1V | 45mA |