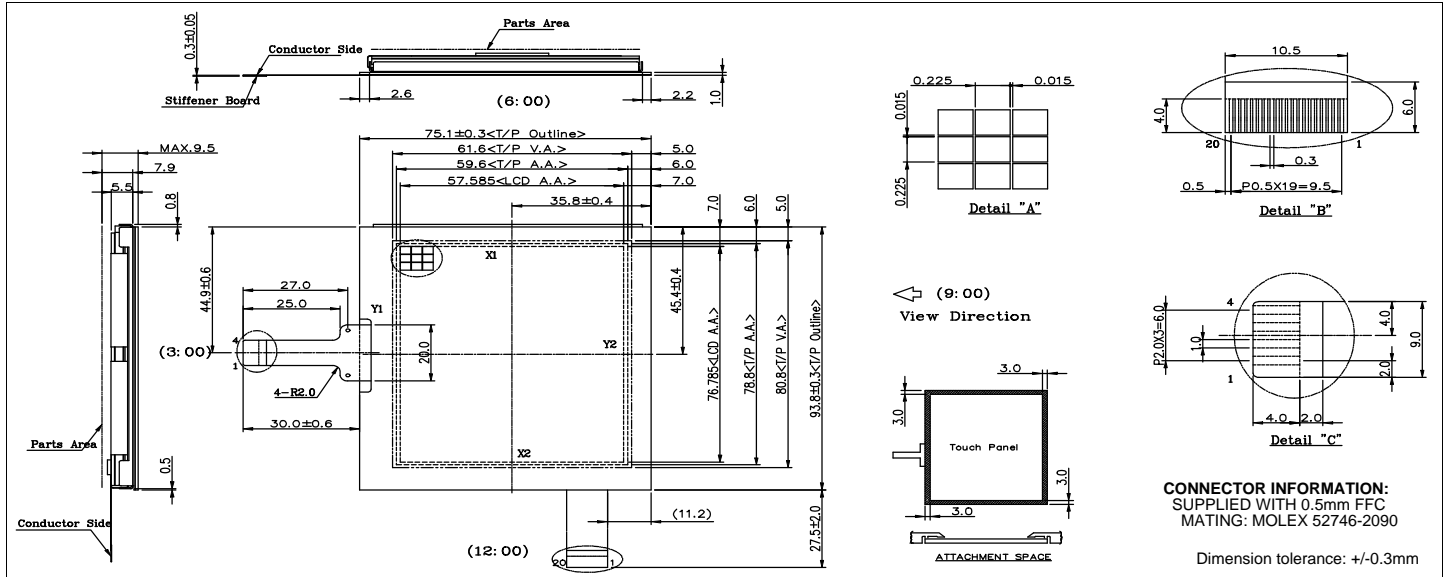


HDM2432TSL-T

Dimensional Drawing

240 X 320 Dots Graphic (Portrait Mode) White LED Backlight



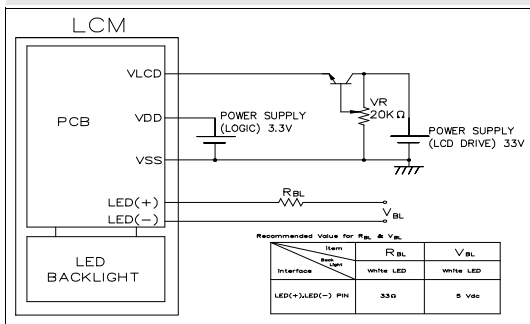
Features

- Backlight.....White LED
- Options.....Black and White FSTN
Extended Temperature
Bottom Viewing
- Built-in Controller.....None

Physical Data

- Module Size.....75.1W x 93.8H x 9.5T mm
- Viewing Area Size.....61.6W x 80.8H mm
- Dot Pitch.....0.24W x 0.24H mm
- Dot Size.....0.225W x 0.225H mm
- Weight.....73.4g

Power Supply



Electrical Characteristics (V_{DD}=3.3±0.25V 25°C)

| PARAMETER | SYM | CONDITION | MIN | TYP | MAX | UNIT |
|--------------------|------------------|-------------------------------------|---------------------|------|---------------------|------|
| INPUT HIGH VOLTAGE | V _{IH} | - | 0.8 V _{DD} | - | V _{DD} | V |
| INPUT LOW VOLTAGE | V _{IL} | - | 0 | - | 0.2 V _{DD} | V |
| SUPPLY VOLTAGE | V _{DD} | - | 3.0 | 3.3 | 3.6 | V |
| | V _{EE} | - | 26.4 | 26.7 | 27.0 | V |
| SUPPLY Current | I _{DD} | V _{EE} =26.7V FLM=70 Hz | - | 0.1 | 0.2 | mA |
| | I _{EE} | - | - | 2.9 | 4.4 | mA |
| LED BACKLIGHT | I _{LED} | V _{LED} =5V | - | 55 | 82 | mA |
| BRIGHTNESS | L | I _{LED} =55mA | - | 8.3 | - | NIT |
| DRIVE METHOD | 1/320 DUTY | | | | | |

Absolute Maximum Ratings

| PARAMETER | SYMBOL | MIN | MAX | UNIT |
|------------------------|----------------------------------|------|-----------------|------|
| SUPPLY VOLTAGE | V _{DD} -V _{SS} | -0.3 | 7.0 | V |
| SUPPLY VOLTAGE FOR LCD | V _{DD} -V _{EE} | -0.3 | 30.0 | V |
| INPUT VOLTAGE | V _{IN} | -0.3 | V _{DD} | V |
| OPERATING TEMPERATURE | T _{OP} | -20 | 70 | °C |
| STORAGE TEMPERATURE | T _{STG} | -30 | 80 | °C |

Pin Connections

| PIN NO. | SYMBOL | LEVEL | FUNCTION |
|------------------------------|-----------------|---------------|---------------------------------|
| DATA CONNECTOR | | | |
| 1 | V _{DD} | 3.3V | Power supply for logic |
| 2 | SGND | - | Shield Ground |
| 3 | V _{EE} | - | Power supply for LCD |
| 4 | FLM | H/L | First Line Marker |
| 5 | DISP ENA | H/L | H = Display ON, L = Display OFF |
| 6 | M | H/L | AC signal |
| 7 | CL1 | H/L | Data Latch clock |
| 8 | CL2 | H/L | Data shift clock |
| 9 | V _{SS} | 0V | Ground |
| 10 | D0 | H/L | Display data |
| 11 | D1 | H/L | |
| 12 | D2 | H/L | |
| 13 | D3 | H/L | Ground |
| 14 | V _{SS} | 0V | |
| 15 | V _{SS} | 0V | |
| 15 | LED + | - | Anode for LED |
| 16 | LED- | - | Cathode for LED |
| 17 | N/C | No Connection | |
| 18 | N/C | | |
| 19 | N/C | | |
| 20 | N/C | | |
| TOUCH PANEL CONNECTOR | | | |
| 1 | Y2 | - | Touch Panel Connections |
| 2 | X2 | - | |
| 3 | Y1 | - | |
| 4 | X1 | - | |