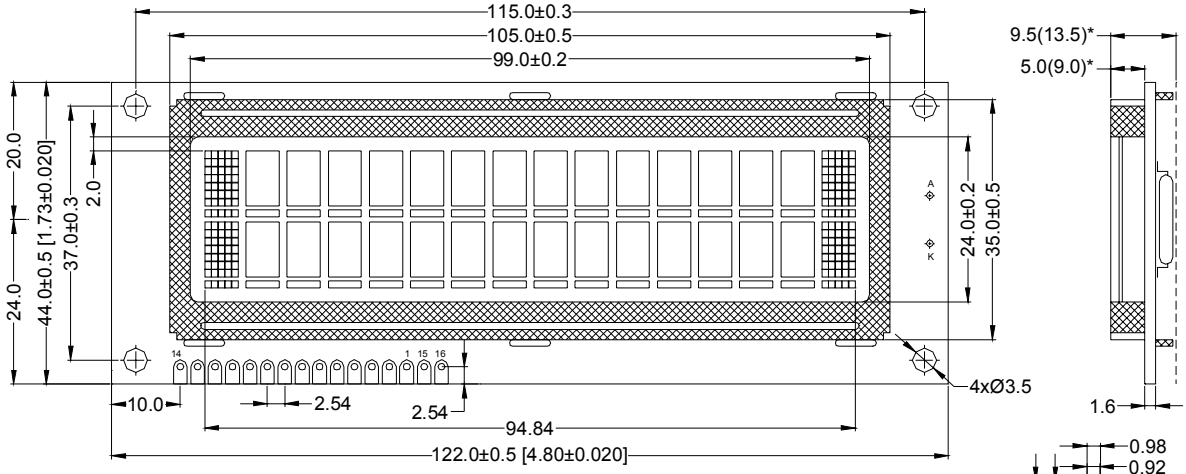
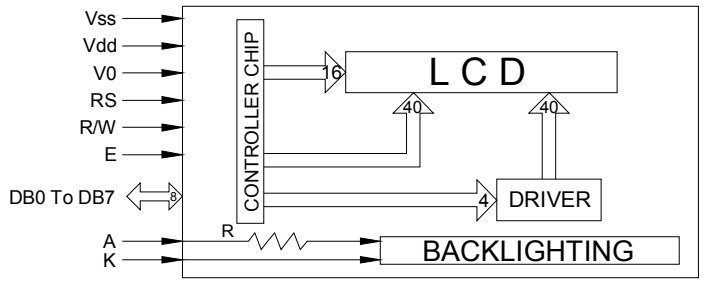
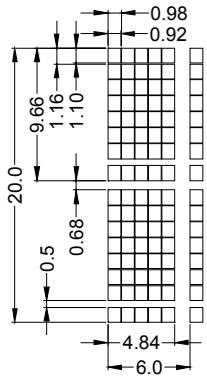
# LM16211 [16 x 2, 1/16 MUX]

DIMENSION IN MM




BLOCK DIAGRAM




[ * ] DIMENSIONS FOR LED BACKLIGHT VERSION

## TABULATED DATA

| MODEL | DISPLAY FORMAT CHAR. x LINE | FONT MATRIX W x H | DRIVING DUTY | DOT SIZE W x H | CHARACTER SIZE W x H | VIEWING AREA W x H | PCB SIZE W x H |
|---|---|---|---|---|---|---|---|
| **LM16211** | 16 x 2 | 5 x 8 | 1/16 | 0.92 x 1.10 | 4.84 x 9.66 | 99.0 x 24.0 | 122.0 x 44.0 |

## ELECTRICAL DATA (Ta = 25°C, Vdd = +5V + 0.25V)

| ITEM | SYMBOL | TEST CONDITION | STANDARD VALUES | | | UNITS |
|---|---|---|---|---|---|---|
| | | | MIN. | TYP. | MAX. | |
| Input High Voltage | $V_{iH}$ | - | 2.2 | - | Vdd | V |
| Input Low Voltage | $V_{iL}$ | - | -0.3 | - | 0.6 | V |
| Output High Voltage | $V_{oH}$ | $I_{oH}$ = 0.2mA | 2.4 | - | - | V |
| Output Low Voltage | $V_{oL}$ | $I_{oL}$ = 1.2mA | - | - | 0.4 | V |
| Supply Current | $I_{dd}$ | $V_{dd}$ = 5.0V | - | 1.2 | 2.0 | mA |
| Operating Voltage for LCD | $V_{dd}$-$V_o$ | Ta = 0°C | - | 4.7 | - | V |
| | | Ta = 25°C | - | 4.5 | - | V |
| LED Backlight Current | $I_{LED}$ | $V_{dd}$ = 5.0V | 70 | 100 | 120 | mA |

## PIN DETAILS

| PIN No. | DESCRIPTION | PIN No. | DESCRIPTION |
|---|---|---|---|
| 1 | Gnd | 5 | R / $\overline{W}$ |
| 2 | Vcc | 6 | E |
| 3 | Vo | 7 to 14 | DB0 to DB7 |
| 4 | RS | 15 & 16 | LED BL A & K |

## MAX. RATING

| Item | MAX. |
|---|---|
| Top | -15 to +65°C |
| Tst | -20 to +70°C |
| Vdd | +5 Volts |
| RH% | 90 % |

## OPTIONAL DETAILS

Wide configurations available. Kindly contact LAMPEX while ordering. Refer LAMPEX **LCM Catalog** for more Information.

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**CAUTION: STATIC SENSITIVE DEVICES**