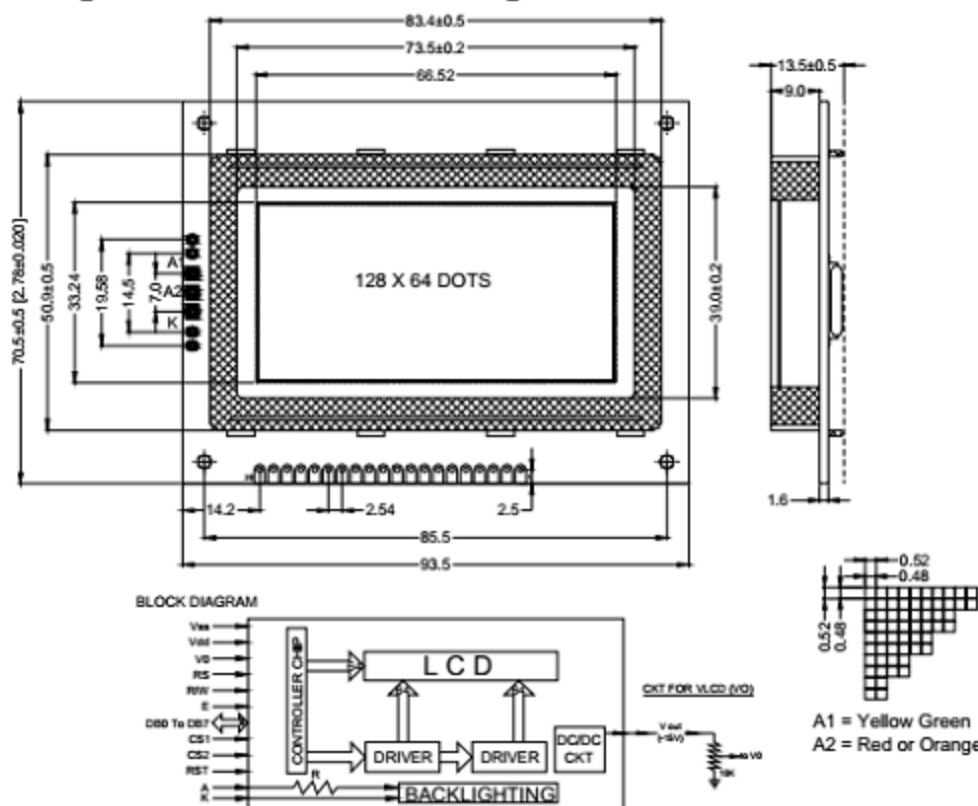


LG128642 [128 x 64, 1/64 MUX]

DIMENSION IN MM



[*] DIMENSIONS FOR LED BACKLIGHT VERSION

TABULATED DATA

| MODEL | DISPLAY FORMAT DOT x DOT | DRIVING DUTY | DOT SIZE W x H | DOT PITCH W x H | VIEWING AREA W x H | PCB SIZE W x H |
|----------|-----------------------------|-----------------|-------------------|--------------------|-----------------------|-------------------|
| LG128642 | 128 x 64 | 1/64 | 0.48 x 0.48 | 0.52 x 0.52 | 73.5 x 39.0 | 93.5 x 70.5 |

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

| ITEM | SYMBOL | TEST CONDITION | STANDARD VALUES | | | UNITS |
|---------------------------|-----------------------------------|-------------------------|-----------------|-------|-----------------|-------|
| | | | MIN. | TYP. | MAX. | |
| Input High Voltage | V _{IH} | - | 0.7 | - | V _{dd} | V |
| Input Low Voltage | V _{IL} | - | V _{SS} | - | 0.3 | 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 | - | 3.6 | 6.0 | mA |
| Operating Voltage for LCD | V _{dd} -V _{out} | Ta = 0°C | -9.6 | -12.5 | -14.8 | V |
| | | Ta = 25°C | -9.4 | -12.2 | -14.6 | V |
| LED Backlight Current | I _{LED} | V _{dd} = 5.0V | 90 | 120 | 150 | mA |

PIN DETAILS

| PIN No. | DESCRIPTION | PIN No. | DESCRIPTION | PIN No. | DESCRIPTION |
|---------|-------------|---------|---------------|---------|--------------|
| 1 | Gnd | 5 | R / \bar{W} | 16 | CS2 |
| 2 | Vcc | 6 | E1 | 17 | RST |
| 3 | Vo | 7 to 14 | DB0 to DB7 | 18 | -Vout (-15V) |
| 4 | RS | 15 | CS1 | 19 & 20 | A1 & A2 |

MAX. RATINGS

| ITEM | MAX. |
|-----------------|--------------|
| Top | -20 to +70°C |
| Tst | -30 to +80°C |
| V _{dd} | +5Volts |
| RH % | 85% @ +40°C |